NORTHROP NEWS

VOLUME XII

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California — Wednesday, July 29, 1953

Jamboree Photos

(See Page 5)

Outstanding Award

NEWEST SAFETY AWARD presented to company is shown by John Breneman, assistant factory manager, nights, to Factory Manager C. B. Spencer. Distinction is award of honor from National Safety Council for outstanding rate of improvement exhibited by personnel in past several years in accident prevention. Northrop accident rate is less than one-third of national average; it won company top national award for 1952. Safety-conservation committees contribute to standing; Breneman is chairman of high-level general committee.

School Days - - - On the Job

INDUSTRY familiarization in order to give better vocational guidance to students was purpose of Vocational Counselors Dorothy Moser, left (Audubon Junior High), and Janet Foster's (deaf classes, Foshay Junior High) two-week visit to Northrop. Assisting with schedule are, from left: D. C. Stadler, assistant director of Industrial Relations; C. D. Hindle, Industrial Training; and Bob Willson, Personnel Manager.

Anti-Icing System Uses Heat from Scorpion Jets

Disclosure of a highly effective thermal anti-icing system in the Scorpion F-89D was released recently by the Air Force.

The anti-icing system on the airplane successfully prevents formation of ice on the windshield, wing, empennage, wing tip rocket pods, engine air intake duct leading edge surfaces, and the engine forward frame compartments located in the engine air inlet ducts.

In announcing the system, Northrop engineers pointed out that in addition to its overall effectiveness; lack of maintenance problems; and dependability, the clean lines of the airplane are not disturbed by external attachments, as occurs in the use of boots or blankets attached to leading edges.

In the F-89D, the airframe leading edge surface and the engine component thermal anti-icing system use air bled from the engines which has been raised to elevated temperatures and pressures by the engine compressors. This air is ducted to the various surfaces where it is used to heat the outer skin to prevent or remove ice.

Anti-icing of the windshield, fuel vents and other components is done by electrical resistance heating. The unique windshield is a bullet proof glass with a transparent, electrical resistance heating element on each side of the glass to provide de-icing on the outer surface and defrosting or defogging on the interior surface. In normal flight the defogging and de-icing elements are heated continuously; and in emergency cases the pilot can select a higher heat output for the outer or de-icing element.

The presence of an icing condition in the F-89D is sensed by the icing detector probes located in the engine inlet airstream. Icing of the probes will energize a red light on the pilot's anti-icing control panel, and retract the engine screens if required. The pilot will then turn on the anti-icing systems immediately.

According to his particular flight condition, the pilot may select either take-off or flight position of his main anti-icing selector switch.

In take-off position, the wing, empennage, cowl lip and rocket pod anti-icing system is not used, so that a maximum of thrust is available, as required for take-off or landing.

In normal flight, the selector switch is in flight position so that complete anti-icing is provided.

The volume of super-heated air used in the F-89D anti-icing systems is sufficient to provide heat for 30 average-sized five-room houses.

Reliability of the F-89's rocket firing system is increased by the electrical anti-icing of wing tip rocket pod doors, providing continued operation regardless of weather conditions.

In the wing tip pods, which house clusters of 2.75" FFAR air-to-air rockets, the F-89D has the most powerful armament load ever carried aloft by a fighter plane.

Norcrafter Teamwork Is Keynote

A team of vari-talented Norcrafters has been at work since May 1 on a special engineering services contract to prepare range-finder publications series—Maintenance Manual, Standard Inspection Procedure Manual, and Ord-9 Supply Catalog—as well as certain range-finder test fixtures for Ordnance.

Work on the contract is requiring coordinated skills of both Anaheim and Hawthorne facility specialists.

Preparing the publications is the direct responsibility of Anaheim's Technical Data Section, Engineering — Bill Armstrong, supervisor. Bill Bartsch, commercial artist of the section, is coordinating the project. Working with Bartsch are Fred Bailey, commercial artist, preparing the exploded set-ups for photographing; Doug Short, standard parts analyst; Andy Cannava and Joe Bradford, spare parts analysts; and Val Hawes, photographer from Hawthorne.

(See photos, page 8)

All writing for the Maintenance and S. I. P. manuals, as well as art work on all publications, is being done by the Pub-

(Continued on Page 2)

INGENUITY SCORES FOR '89 SCORPION

HYDROTEL IDEA SAVES TIME

By Aireporter

Ingenuity of a night shift Machine Shop Norcrafter on F-89 manufacture has made possible new time and material saving by use of the Hydrotel for a job normally scheduled to the Keller, it has been reported to the News by Machine Shop General Foreman A. R. "Hap" Frank.

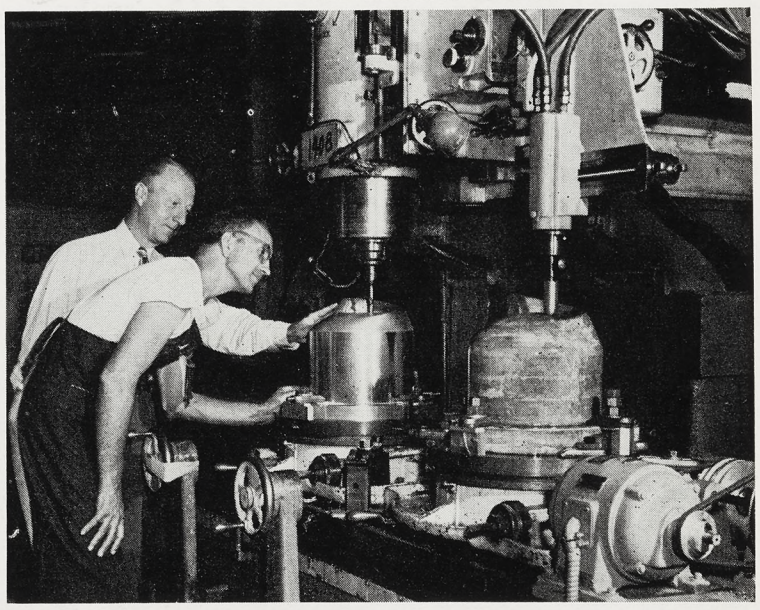
The job was for the Machine Shop to make a Dural duplicate of a mold for radar cooling shroud to be made later in the Plastic Shop.

Ordinarily the job would be done on a Keller, for it requires "profiling". But when the Machine Shop night shift got the assignment, all personnel involved went into a huddle.

Bill Martin came up with an idea: why not do the job on the Hydrotel? C. C. Purkey, Tom Polliard, Mose DeMasters, Johnny Peck, and others chimed in with their suggestions. The Hydrotel had not been used for this type of job before.

Result of the suggestions was a simple—yet ingenious—double rotary table set-up, tied together by shaft, and driven by electric

(Continued on Page 2)



INGENUITY PROVIDED new use for Hydrotel in Machine Shop recently—duplicating in Dural a mold from plaster cast. Carl Liedtke, night shift foreman, and Otto Hoepfl, day operator, study set-up in photo. It was idea of Bill Martin, nights, who, with assistance from Tom Polliard, C. C. Purkey, and other night shift Norcrafters, set up job. Two rotary tables tied together by shaft and driven by electric motor turned Dural and plaster cast together, made profiling possible. Result was efficient production operation.

Grand Banner Award for Best Good Housekeeping

Four sectional winners in the Factory division's Good Housekeeping campaign were being chosen this week to compete for the July championship, Factory Manager C. B. Spencer has announced.

The final award committee will meet next Monday or Tuesday to determine the winning department. This group is under the chairmanship of Gary Hard, assistant general foreman, Production Fabrication, nights, and includes one assistant superintendent from each of the four sections.

From six to eight departments are included in each section. The assistant superintendents responsible for the work of those departments select the outstanding one to represent the section in the finals, and simultaneously appoint one of their own number to serve on the final award committee.

Surveys of departments have been made regularly since the beginning of the contest on July 1, and competition between departments has been noted to be keen. A poster-type banner will be awarded to the grand winner for display in the department area.

"The winning award will be a tribute to every man and woman in the winning department," Spencer said, "for it takes the efforts of every Norcrafter working there to come through on top."

The award will be made monthly.

M-C Group Activities Announced

Newly-released program announcements of the Northrop Management Club reveal that the organization's calendar of events is rapidly filling with summer-month activities.

Ralph Hopkins, Education chairman of the group, has advised the membership that the next scheduled meeting in the so-called "bull-session" series—informal discussions—will feature John B. Clark, director of Industrial Relations, who talks on "Applied Human Relations" on August 12 at the NRC Clubhouse annex in Hawthorne—8 p.m.

The Human Relations session follows by less than a week the regularly scheduled club meeting, which will be held on Friday, August 7, at the Western Club.

The latter meeting features Johnny Mantz, noted racing car driver, who will present an Indianapolis Speedway film. The customary Question-Answer forum will be conducted by George Gore, secretary and corporation counsel of the company.

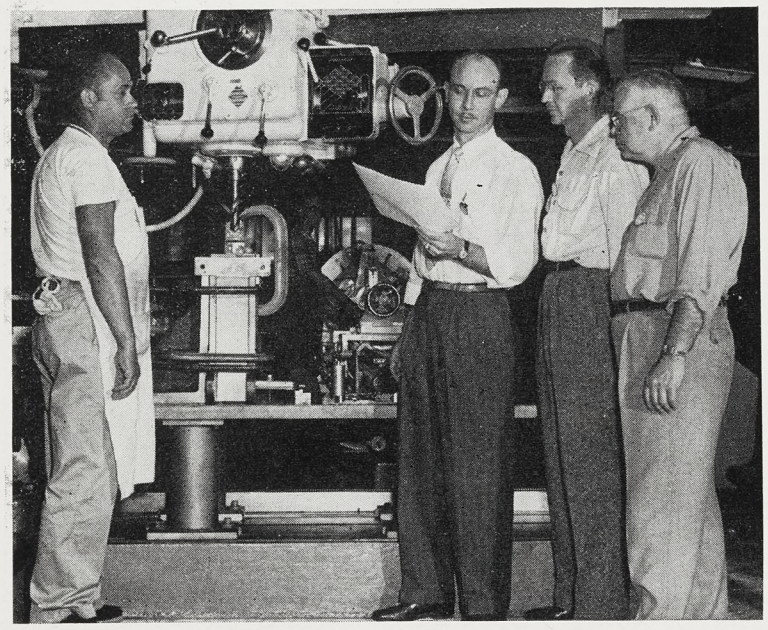
Other new developments announced by the Education committee indicate that strenuous efforts are being made to provide night shift members of the Management Club with the opportunity to participate in the informal discussions program by arranging day-time meetings. Chairman Hopkins said that questionnaires were being prepared for night shift members to indicate their preference of time and site of meetings.

Meanwhile, arrangements were also being made to schedule a number of tours to places of interest in the area, following receipt of ballots from the membership indicating top choices of subjects.

First of the tours were completed on July 20, when nearly 100 members toured the Goodyear Rubber Company's Los Angeles plant, the night shift in the morning and day shift members at night.

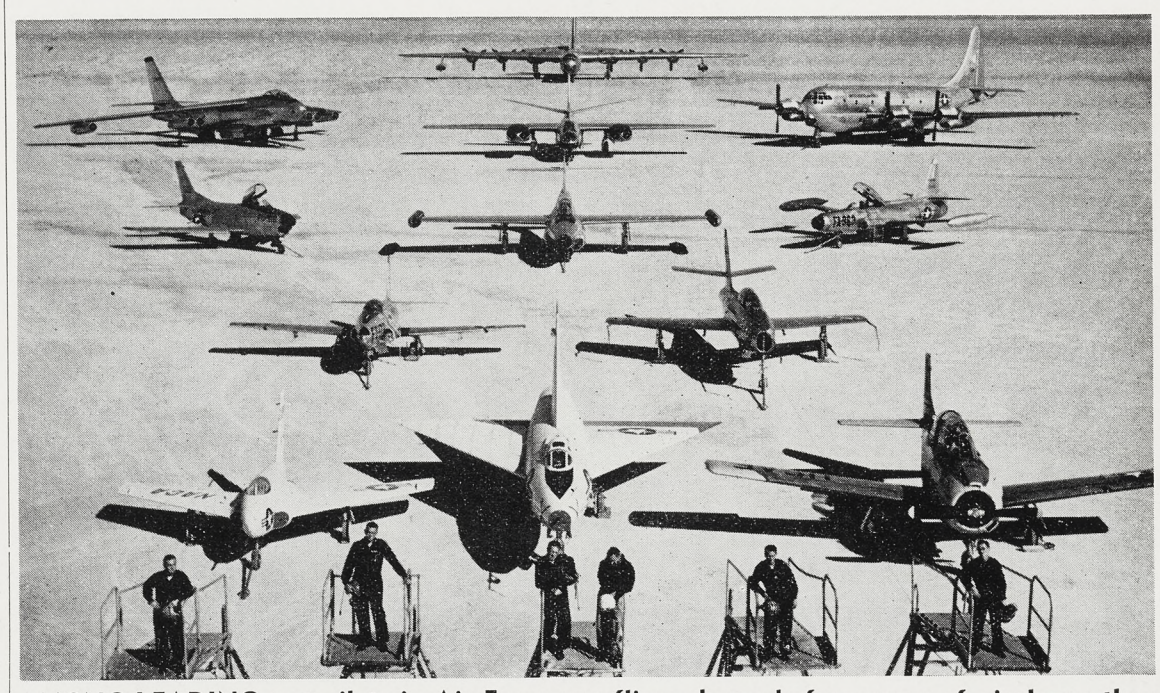
At press-time still another Education committee release announced the arrangement of a September "bull-session" at the Western Club on pensions. Jack Seiter, underwriters' representative, will be the featured speaker on this program, with the subject—"Your Pension Future".

Spic 'n Span



CURRENT COMPETITION among factory departments for monthly Good Housekeeping award is subject of discussion for this night shift group in Tooling Machine and Die Shop. Operating radial drill is Arden Higdon; talking over program at right are Fred Griffin, assistant superintendent, and R. H. Wallen and Ed Nichter, supervisory Norcrafters in Tooling Department 5445. Competition began on July 1st.

Test Pilots and Test Aircraft



AMONG LEADING test pilots in Air Force are fliers shown before array of airplanes they have tested at Air Force Flight Test Center, Edwards AFB. Pilots, from left, are: Captain J. Slade Nash; Major Harold G. Russell; Colonel Fred J. Ascani; Brigadier General J. Stanley Holtoner; Lieutenant Colonel Jack L. Ridley; and Captain Thomas H. Curtis. Beginning at front, from left, the airplanes: Northrop X-4; XF-92; T-28; F-80; F-84-F; F-86-D; Northrop F-89 Scorpion; F-94-C; B-47; B-45; KC-97; B-36. Picture is official USAF photo.

Hydrotel Saves Time

(Continued from Page 1)

motor. Parts for making the set-up were unused materials obtained from several sources—a material conservation move.

A plaster mold from the Plastic Shop became the pattern. It was mounted on one table, the Dural on the other. Both tables revolved simultaneously, and the cutting tool on the Hydrotel performed the proper machining on the Dural, which had previously been rough-cut.

The job went off like clock-work, and Frank later revealed the possibility that the set-up might be used again on a similar tooling operation.

The cooling shroud job went to the Hydrotel this time, night shift Assistant General Foreman Carl Liedtke said, because "it seemed more adaptable to that machine."

"As it turned out, it saved time; it saved cost; and, all in all, it resulted in a quality piece of material," Liedtke reported. "The adaptation itself is not brand new, but it's the first time we tried it here, and it worked out fine."

Martin, given the nod for the idea, disclaimed credit, stating that much of it was due to the help of his fellow Norcrafters in the department.

"When you get an interesting job like that to do," he grinned, "fellows like to pitch in and help . . . they came around like flies on honey on this one! And it worked the minute we pushed the button!"

The operation was completed in about two days; ordinarily it might take as much as four . . .

BUY DEFENSE BONDS

Via Payroll Savings

Northrop Men Will Take Panel Lead in SAE Meet

Northrop will be well represented when the Society of Automotive Engineers' Aircraft Production Forum meets at the Hotel Statler on September 29-30.

Nine panels are scheduled to be held during the conference; Norcrafters will lead one, co-chairman five, and hold membership on still a seventh panel.

R. S. Catlin, director, Quality Control, has been named leader of the Quality Control panel, with Ralph Hopkins, Statistical Quality Control, acting as secretary.

Among panel co-leaders from Northrop is Kenneth P. Bowen, vice-president in charge of Manufacturing, who heads the group on Control of Manufacturing Costs.

Other Norcrafter panel co-leaders are Dan Kraybill, general superintendent, Tooling Operations Administration (Forming panel); Jim Van Dorn, superintendent, Warehousing (Material Handling); Ed Petoskey, assistant plant engineer (Plant Layout and Plant Engineering); and J. W. Hinchliffe, manager, Materiel (Procurement).

H. F. Herdrich, assistant manager, Industrial and Plant Engineering, will be a member of the Change Control panel. "Hap" was chairman of this group at the 1952 SAE meeting.

NIGHT CAMERA CLUB FOR NRC MEET AUGUST 1

Plans have been announced for the reactivation of the night shift NRC Camera Club. Formative meeting will be held at the NRC Clubhouse on Saturday, August 1, 7:30 p.m.

At that time the group will plan regularly scheduled meeting dates and outline field trips and annual competitive salons. Darkroom facilities at the Clubhouse will be available to Camera Club members.

All Norcrafters and families who are interested in joining the club are invited.

Teamwork

(Continued from Page 1)

lications Section, Customer Service, Hawthorne.

The test fixtures phase of the contract—comprising a substantial part, dollar-wise—falls to Tool and Methods Engineering, Tooling Research and Development section, Wes Vokes, general supervisor. Jim Saxton, tooling engineer, is coordinating this phase, working laterally with A. C. Daily, Planning; Kelly Osborn, Design; Mike Smigielsky and Bob Culpepper, Instrumentation.

The contract, to run into next year, is the first such task undertaken by Northrop Anaheim.

Northrop News

Vol. 12 Northrop Field, Hawthorne, Calif. No. 1

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JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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Night Shift Greets Visitor

NIGHT SHIFT PERSONNEL greeted Vice-president John Myers recently when he made an evening visit to the plant. Conducted on his tour by Assistant Factory Manager John Breneman and Factory Superintendent Bill Morgan, Myers (right) was photographed in Department 5588, where the party stopped to discuss assembly operations with Assistant Foreman Bob Hampton. Production features of F-89 Scorpion main landing gear wheel well are being reviewed. Myers is noted test pilot—flew Northrop F-61 Black Widow night fighter, both in Engineering test programs and in South Seas during war years.

Lady Norcrafter Lends Helping Hand to Vets

Edna Stenbeck, movie projectionist in the Photo Lab, is concerned over the "forgotten men" in vets' hospitals.

And she does her part to relieve the monotony that is theirs:—this Norcrafter is one of very few aircraft industry women who are regularly devoting time to providing activities for patients who have little but time on their hands.

Every Thursday Edna goes to Sawtelle, sets up a movie projector and screen, and shows late-run films (obtained through cooperation of the movie industry with the Veteran's Administration) to incapacitated veterans.

Edna answered the call of the Red Cross some six months ago for volunteers with special abilities. She found that instructors were needed for various hobbies, but that these were daytime jobs. She wanted to help, though, and when asked what she could do, answered that she was by vocation a movie projectionist.

"They almost turned flips when they heard that," Edna reports; "projectionists were badly needed for evening shows, and there were no volunteers."

Since then she has gone to the hospital twice weekly—to show movies, and to serve as hostess.

The boys appreciate her efforts, for when she arrives for the weekly movie, "there are half a dozen of them eagerly waiting outside."

Having seen the need of the vets for entertainment—"some of them never have visitors"—Edna has embarked on a one-woman campaign to enlist the help of others, and on at least one occasion thus far Norcrafter ladies have responded.

The NRC Women's Dinner Club paid a visit to the hospital, she related, and its members were hostesses for the evening, chatting with the patients, devising games, and, in general, just being good visitors.

"You'll never know how much they appreciated that," Edna told the News; "the girls outnumbered the men that night, and that, believe me, was a popular, as well as unusual, turn of affairs!"

As a consequence of that occasion, Hilde White, Women's Activities coordinator, and Cathy Waffel, commissioner of the Dinner Club, are making plans for "Northrop Nights" at the hospital, hoping to encourage distaff Norcrafters to make visits there.

Norcrafters White, Waffel, and Stenbeck are hopeful that women Norcrafters, always noted for immediate response to worthy appeals, will help out now, too.

The sense of satisfaction derived from volunteer services such as this, they agree, is tremendous compensation for the trifling time involved.

NORTHROP REPRESENTATIVES at annual conference of American Society for Quality Control were Bob Catlin, director, Quality Control; Bud Bennett, supervisor, Statistical Quality Control; Jim Ward, chief inspector, Anaheim; and H. L. Dugan, supervisor, Statistical Quality Control, Anaheim. Meet, in Philadelphia at end of May, was attended by leading experts of country, representing all major companies. Photograph was taken at the conference banquet.

Norcrafters Confer on ASQC

Materiel Dance

MATERIEL DANCE committee members busily complete plans for Fiesta Dance to be held at Westport Beach Club, Playa del Rey, on Saturday, August 15. Standing are: Bob Sands (or band maestro Cy Lucas) and Bill Bell. Seated, from left: Dory Guess, Dee Carroll, Dolly Smith, Charlotte Bunker, Bernie Quinlan, and Jessie Van Horne. Tickets—$1.25. Three members of the dance arrangements committee—Bettye Downing, Dick Gooch, and Cy Perkins—not in photo.

The STORK CLUB

New Boss

Bob Brown (Engineering Test) and his wife, Margaret, greeted their first son and heir on May 8 at 10:35 a.m. at the Inglewood Bassinette. Jeffrey Neil, new boss of the household, weighed in for his reign at 7 pounds, 10 ounces.

Jim Curry Holman

John and Dorothy Holman, Assembly, proudly announce the birth of first son and heir, Jim Curry, born May 25, 1953, 8:25 a.m. Little Jim arrived via Methodist Hospital, Los Angeles, weighing 8 pounds, 1½ ounces.

Underwoods Get Boy

Kenneth and Nida Underwood, Tooling, are the proud parents of a bouncing baby boy, Gary Lee, born May 24, 1953. Little Gary checked in Los Cerritos Hospital at 6:30 a.m. Waiting at home was big sister Gail, 2.

Florida Tot

Albert and Frances Ashton, AFMTC, Florida, are the proud parents of son Jonathan William, born March 2, 1953. Little Jonathan weighed a husky 9 pounds, 4 ounces on arrival at Brevard Hospital. Big brothers Juddy, 10, and Tim, 1, and sister Judy, 3, formed the welcoming committee at home.

Florida Arrival

Joseph and Barbara Corrente, Bailed Aircraft Flight Services, Florida, proudly announce the birth of first child and daughter Carey Lynn, born July 12, 1953, 5:00 p.m. at Brevard Hospital. Little Carey weighed 5 pounds, 8 ounces on arrival.

Elmer Richards, jr.

Elmer and Mary Kathryn Richards, Bailed Aircraft Flight Services, Florida, are telling good news of the birth of baby son Elmer, junior. Little Elmer destorked at 2:00 p.m. on July 15, 1953, at Brevard Hospital. He tipped the beam at 6 pounds exactly. Big sister, Kathryn Ann, 5, thinks he's pretty cute.

EDNA STENBECK—movie projectionist at Plant Three, is concerned over lack of activities for veterans in hospitals.

NRC Tropical Fish Club First Meeting Tonight

The Tropical Fish Club, newest NRC activity, will hold its first meeting tonight, Wednesday, July 29.

The meeting will be highlighted with the presence of David Harris, well-known authority on tropical fish. Mr. Harris will talk on "Why Tropical Fish" and general familiarization of plants. Colored slides of fish and plants will be shown, followed by a question and answer period.

All Norcrafters and their families and friends are more than welcome to attend. Refreshments will be served courtesy of Northrop Recreation Club.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)

DENKER & 56TH ST. (Will stop at any intersection that is convenient), Los Angeles. I. B. THOMPSON (5503-162, Ext. 2681), PL 1-8130. (12-1-1)

SUNSET BLVD. & HYPERION OR SUNSET BLVD. & VERMONT (Comfortable car—careful driver), Los Angeles. RAYMOND M. COVERT (5585-599, Ext. 1381), NO 1-1401. (12-1-1)

PLAINVIEW & FOOTHILL BLVD. (Route: Sunland, Glen Oaks, Hollywood Way & Highland), Tujunga. MARVIN HINZE (7230-20, Ext. 2210). (12-1-1)

WESTERN & ROMAINE (2 blocks south of Santa Monica Blvd.), Hollywood. W. J. FORBELL (5234-17, Ext. 1981), HO 5-9121. (12-1-1)

(Zone 2)

SLAUSON & CENTRAL. (Three riders wanted), Los Angeles. M. M. VERDUGO (5588-69, Ext. 1938), AD 1-4852. 12-1-2

(Zone 6)

COMPTON BLVD. & WESTERN AVE. (Down Western to El Segundo to Plant—or down Compton to Crenshaw to Plant), Gardena. W. B. MORTON (5585-77, Ext. 1381). (12-1-6)

(Zone 11)

EL SEGUNDO & HIGHLAND AVE., Manhattan Beach. CHUCK POTTER (5517-57, Ext. 527). 12-1-11

(Zone 14)

CRENSHAW & 48TH (Down Crenshaw—over Manchester—down Prairie to Plant. Will take three), Los Angeles. LEWIS G. KENDALL (7310-81, Ext. 2619), AX 3-0623. (12-1-14)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)

WESTERN & ROMAINE (2 blocks south of Santa Monica Blvd.), Hollywood. W. J. FORBELL (5234-17, Ext. 1981), HO 5-9121. (12-3-1)

PLAINVIEW & FOOTHILL BLVD. (Route: Sunland, Glen Oaks, Hollywood Way & Highland), Tujunga. MARVIN HINZE 1381). (12-1-6)

(Zone 6)

COMPTON BLVD. & WESTERN AVE. (Down Western to El Segundo to Plant—or down Compton to Crenshaw to Plant), Gardena. W. B. MORTON (5585-77, Ext. 1381). (12-3-6)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 4)

NORWALK & WASHINGTON BLVDS. (Would like to exchange rides—can adjust hours), Whittier. J. P. ASHBY (8310-29, Ext. 2401), OX 54196. (13-1-4)

RIDES OFFERED

7:30 a.m. — 4:15 p.m.

(Zone 6)

PACIFIC COAST HWY. & ANAHEIM ST., Long Beach. KEN HURLEY (5114-38, Ext. 2760), L.B. 9-1376. (13-1-6)

(Zone 8)

CRENSHAW & 156TH ST. (Nearest main thoroughfare) Just No. of Redondo Blvd. (I live 1½ blocks east of Crenshaw Blvd. on 157th St. I deliver my little girl each morning to Nursery School on Compton Blvd. in 2700 block. Nursery school is tentative arrangement which has not started yet as of 7-23-53), Gardena. MARGARET H. CASSIDY (5114-42, Ext. 1306), MEnlo 4-7221. 13-1-8

(Zone 9)

PACIFIC COAST HWY. & PALOS VERDES PARKWAY, Hollywood Riviera. JUD WELLER (3252-137, Ext. 2165), FR 5-1077. (13-1-9)

(Zone 13)

VENICE BLVD. & LA CIENEGA, Los Angeles. KEN PITZER (3252-173, Ext. 2165). (13-1-13)

SEPULVEDA & MONTANA (WILSHIRE) (prefer car pool), Westwood. HANK S. BACHRACH (3650-146 S, Ext. 2164). (13-1-13)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)

NORMANDIE & MELROSE. (Car pool preferred — Hollywood — Wilshire area), Hollywood. AL WEISBERG (8340-30, 2011, Ext. 301), OL 2703 (13-3-1)

(Zone 13)

ARBOR VITAE & ANZA AVE. (In car pool only), Westchester. JIM HAINE (3310-13, Ext. 2564. (13-3-13)

PLAYA ST. & SEPULVEDA BLVD. (Would prefer to join car pool), Culver City. P. J. PAULOS (3510-505, Ext. 1528), EX 7-9165. (13-3-13)

KEYSTONE & LE BOURGET. (Overland, Playa, Slauson, La Cienega, Centinella, Prairie), Culver City. W. A. WIKHOLM (3270-352, Ext. 1668). 13-3-13

(Zone 14)

BEVERLY & FAIRFAX OR BEVERLY & LA CIENEGA, Los Angeles. GERSTEN SHACKNE (3279-88, Ext. 405), WY 3882. (13-3-14)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 5)

ROSEMEAD—LAKEWOOD—ROSECRANS (Am interested in joining a car pool—will take riders or will ride with another), Arcadia. R. W. CAVENEY (5338-213, Ext. 2145), DO 7-4856. (18-1-5)

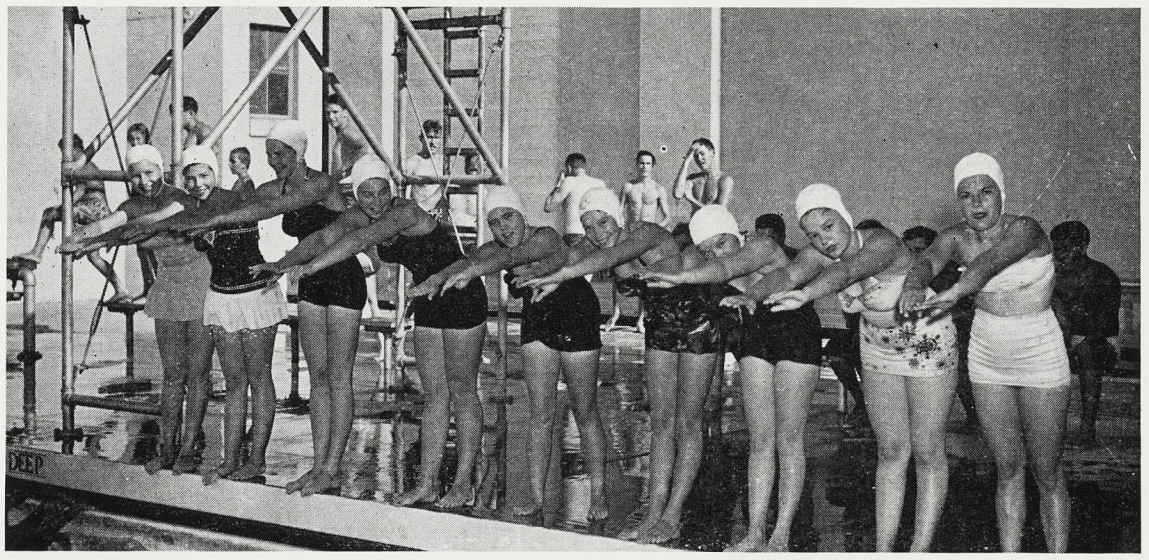
(Zone 6)

DOWNTOWN LONG BEACH AREA (Room for 2 more), Long Beach. R. L. FRAIM (5373-234, Ext. 1243). (18-1-6)

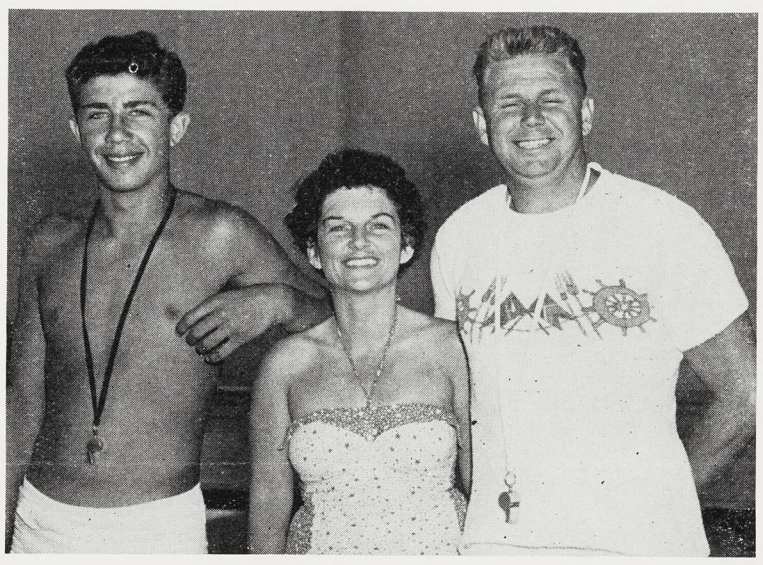
Mat Con says

CONSERVATION IS THE ACT OF UTILIZING TO A MAXIMUM EXTENT ALL EFFORTS TO MAKE THINGS BETTER FOR LESS, AND TO PREVENT THE MIS-USE OF MATERIAL, TIME AND ENERGY . . .

Leuzinger Pool Beckons



A BEVY OF PRETTY GIRLS line up for after-work plunge in Leuzinger High School pool at recent NRC Swimming Club meet. Club has had record crowds so far this season. Norcrafters and their families who would like to swim need take only bathing suit and towel; ladies are required to also wear caps. Leuzinger is located on Rosecrans, between Prairie and Hawthorne. Do come in—the water is fine!



LIFEGUARDS David Garrett, left, son of Norcrafter Marion R. Garrett, Welding, and Gordon Grant, Power Plant, take time out to pose for picture with Betty Jo Razor, acting commissioner of Swimming Club. The full-fledged, licensed lifeguards are on hand for each club meet—Wednesdays and Fridays, 4:30 to 6:30 p.m. Use of the pool is free.

RIDES OFFERED

4:45 p.m. — 1:15 p.m.
(Plants 1 and 2)

(Zone 6)

ANAHEIM & CHERRY, Long Beach. W. H. STEWART (5577-240, Ext. 1947). (18-1-6)

(Zone 9)

PACIFIC COAST HWY. & HAWTHORNE BLVD. (To Plant via Hawthorne Blvd.—Will pick up along route—one ride offered), Hollywood Riviera. D. S. CAHILL (5534-221, Ext. 2244). (18-1-9)

4:45 p.m. — 1:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 6)

ANAHEIM & CHERRY, Long Beach. W. H. STEWART (5577-240, Ext. 1947). 18-3-6

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 5)

GIBSON & ROSECRANS (Hours 7:00 to 4:00), Compton. BETTY J. PERRY (5123-23, NE 2-5792, Ext. 238), NE 8-2638. (10-1-5)

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)

ALVARADO & WILSHIRE. (one way only—to work), L. A. 57. GEORGE C. LINDSEY (5503-198, Ext. 2681), DUnkirk 9-8517. 2-1-1

(Zone 4)

PARAMOUNT & GARDENDALE, Hollydale. ROSE E. SLAUGHTER (5508-119, Ext. 2230), ME 3-6237. (2-1-4)

(Zone 5)

OLIVE & WILMINGTON AVE., Compton. EVELYN R. BRUNSON (5351-44, Ext. 541), NE 5-2490. (2-1-5)

CLARK & CARSON (Have transportation to any address in Long Beach or Lakewood), Long Beach. GARY J. PROUT (5508-199, Ext. 2327), L.B. 53-703. (2-1-5)

(Zone 6)

XIMINO & 4TH, Long Beach. EDWARD W. AYER (5122-15, Ext. 559-A), L.B. 908-604. (2-1-6)

(Zone 8)

CRENSHAW & 171ST ST., Torrance. R. S. WEIMERSKIRCH (5589-132, Ext. 2619), ME 9-1964. (2-1-8)

CRENSHAW & 190TH, Torrance. GENEVIEVE A. BASKINS (5507-92, Ext. 5507), ME 4-8164. (2-1-8)

(Zone 9)

PROSPECT & TULITA (via Sepulveda to Hawthorne Blvd. Will ride or share ride), Redondo Beach. REX GAMBLE (5233-27, Ext. 1456), FR 55782. (2-1-9)

(Zone 10)

HIGHLAND & 9TH ST., Manhattan Beach. H. ROISMAN (5353-94, Ext. 2230), FR 4-1690. (2-1-10)

HIGHLAND & MARINE, Manhattan Beach. LEVERNE PHILLIPS (5507-82, Ext. 5261), FR 4-2174. (2-1-10)

(Zone 12)

OCEAN AVE. & COLORADO (Anywhere on or near this area including downtown Santa Monica), Santa Monica. (7230-36, Ext. 2493). (2-1-12)

PICO & BUNDY, Santa Monica. DAVE SAVAGE (7100-32), EX 9-8729. (2-1-12)

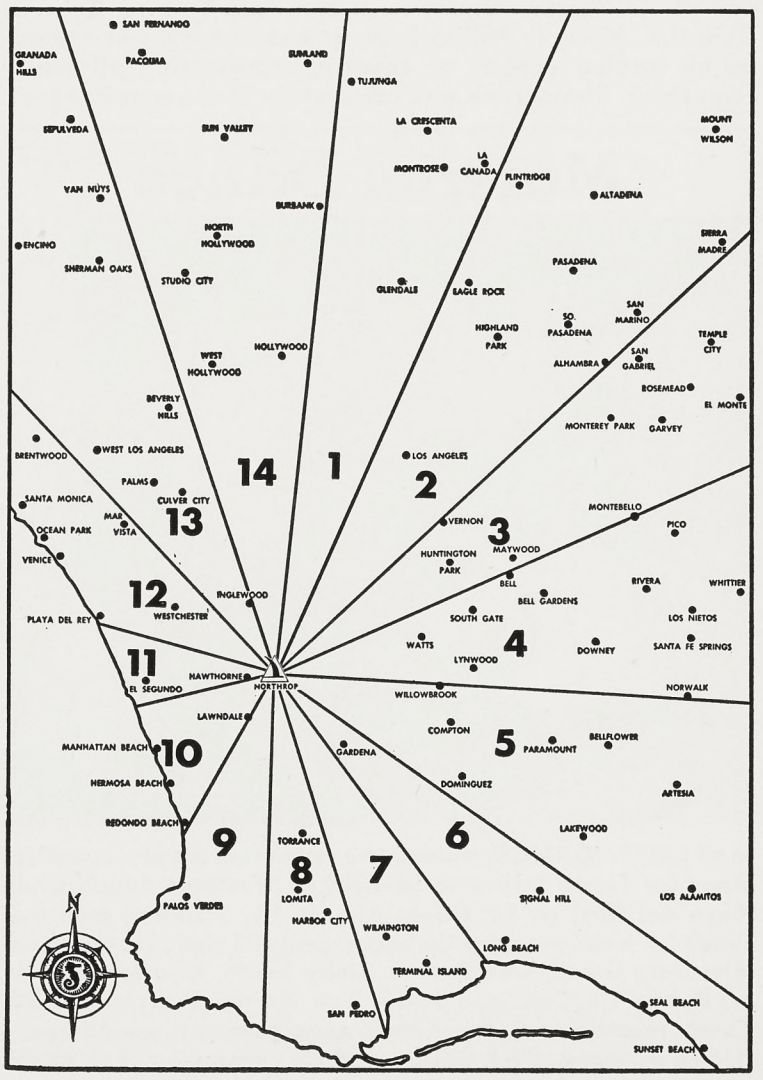
STEWART AND 77TH, Kentwood. ANITA DION (4100-12, Ext. 2332). OR 7-1652. (2-1-12)

(Zone 14)

CRENSHAW BLVD. & WASHINGTON BLVD., Los Angeles. DARCEL McNORTON (5232-32, Ext. 1303), RE 3-5500. (2-1-14)

OVERHILL & WEST BLVD., Los Angeles. B. JOHNSON (7230-44, Ext. 575), AX 2-7026. (2-1-14)

(Continued on Page 5)



Top Skeet Man

EDMUND F. BURKE, chief, Plant Security and Protection, proudly accepts first-place trophy from NRC Skeet Club Commissioner Chuck Allen. Trophy was copped by highest score during 1953 Annual Trophy Shoot held recently at Dominguez Gun Club. Also proud winners of Northrop Recreation Club trophies are W. Roy Brown, Engineering Services, third, (left), and H. D. Bowers, Assembly, second.

GOING MY WAY

(Continued from Page 4)

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 6)

CHERRY & 15TH, Long Beach. JAMES R. BREWSTER (5506-13, Ext. 540). L.B. 35-5972. (2-3-6)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 1)

CENTURY & VAN NESS, Los Angeles. FRANCES ARNOLD (7000-17, Ext. 2361), PL 6-2045. (3-1-1)

(Zone 2)

MANCHESTER & NORMANDIE (Ride going home necessary—my husband brings me in the morning—however, could ride both ways if required), Los Angeles. FRANCES M. WELCH (7000-21, Ext. 669-530). TW 4937. (3-1-2)

(Zone 3)

IMPERIAL & NORMANDIE (No car), L.A. GERALD WELCH (7510, Ext. 2438). (3-1-3)

(Zone 4)

NORWALK & WASHINGTON BLVDS. (Would like to exchange rides—can adjust hours), Whittier. J. P. ASHBY (8310-29, Ext. 2401) OX 5-4196. (3-1-4)

(Zone 5)

PARAMOUNT BLVD. & ARTESIA (If possible, would like to be picked up at Paramount and 63rd, if driver goes straight out Paramount), No. Long Beach. SHIRLEY FORST (1441-47, Ext. 691-693-1655), L.B. 204479. (3-1-5)

ROSECRANS & NORWALK (Want ride for two weeks only). MARILYANNE ANDREWS (5100, Ext. 469), TO 31261. (3-1-5)

ROSECRANS & NORWALK (Want ride for two weeks only). PAT KOEPP (5100-23, Ext. 469), TO 31261. (3-1-5)

COMPTON BLVD. & WILMINGTON AVE. (Would like to be picked up about three blocks west of Wilmington Ave.), Compton. SHIRLEY BLY (1441-44, Ext. 691), NEwmark 5-8588. 3-1-5

(Zone 6)

PACIFIC COAST HWY. & ANAHEIM ST., Long Beach. KEN HURLEY (5114-38, Ext. 2760), L.B. 9-1376. (3-1-6)

(Zone 8)

PACIFIC COAST HWY. & PALOS VERDES PARKWAY, Hollywood Riviera. JUD WELLER (3252-137, Ext. 2165), FR 5-1077. (3-1-8)

(Zone 10)

HERMOSA & PIER AVE., Hermosa Beach. DOLORES SLUZARZ (5200-19, Ext. 1730). (3-1-10)

HERMOSA & PIER AVE. (Willing to walk a few blocks), Hermosa. MARGE BARKER (5230-11, Ext. 793). (3-1-10)

PRAIRIE & 139TH ST. (I'm interested in 4:15 p.m. ride only), Hawthorne. GLORIA A. MARTINEZ (4100-34, Ext. 2331), OS 5-2473. (3-1-10)

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 10)

ROSECRANS & HWY. 101 (Want ride home only), Manhattan Beach. JOAN SWIFT (9320-76, Ext. 2151), FR. 2-4600. (3-1-10)

JOHNSTON AVE. & MANHATTAN BCH. BLVD. (Between Inglewood Ave. & Aviation Blvd), No. Redondo Bch. Blvd. JANICE A. SWAN (4222-16, Ext. 2639), FR 4-6915. (3-1-10)

PACIFIC & ROSECRANS, Manhattan Beach. LAWRENCE CONRAD (5126-59, Ext. 1635), FR 2-7423. (3-1-10)

INGLEWOOD AVENUE OR OCEANGATE AVE. & 137TH PLACE. (Ride home only), Hawthorne. MAXINE BOYER (7000-36, Ext. 1896). 3-1-10

(Zone 12)

SANTA MONICA BLVD. & 21ST., Santa Monica. PAUL R. NOBLE (9320-70, Ext. 2151). (3-1-12)

HILLCREST BLVD. & INGLEWOOD AVE. MARY A. ANNESE (5113-42, Ext. 2346 or 1342). (3-1-12)

INGLEWOOD AVENUE & REGENT ST. (I need a ride going home only—one way), Inglewood. VICKI STRAHAN (5910-833). Ext. 1565 or 1566). (3-1-12)

(Zone 13)

LA TIJERA & 79TH OR AIRPORT BLVD. & 83RD, Westchester. RUTH M. SOTHERN (9310-71, Ext. 2297), OR 70390 (3-1-13)

SEPULVEDA & MONTANA (WILSHIRE) (prefer car pool), Westwood. HANK S. BACHRACH (13650-146-S, Ext. 2164). (3-1-13)

(Zone 14)

DOTY & 107TH, Inglewood. (If I can't possibly find a ride at that location, I will accept one at Prairie & 107th), Inglewood. MARY ULLRICH (7000-48, Ext. 769), OR 7-2080. (3-1-14)

DOTY & CENTURY, Inglewood. CAROL WATSON (5240-14, Ext. 2455), OR 7-9843. (3-1-14)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)

VERMONT AVE. & 7TH ST., Los Angeles. LEE WHITING (3510-500, Ext. 1854), DU 8-5018. (3-3-1)

NORMANDIE & SANTA BARBARA, Los Angeles. GENN LYNCH (3411-842, Ext. 400). (3-3-1)

NORMANDIE & MELROSE. (Car pool preferred—Hollywood — Wilshire area), Hollywood. AL WEISBERG (8340-30, 2011 Ext. 30), OL 2703. 3-3-1

(Zone 2)

NORMANDIE & FLORENCE, Los Angeles. PAULINE BRODERICK (3142-893, Ext. 455), TW 4163. (3-3-2)

(Zone 4)

EL SEGUNDO & WILMINGTON AVE., Willowbrook. LOUIS LEAL (3510, Ext. 2441), NE 2-3285. (3-3-4)

AT PERSONNEL ACTIVITIES — **TRAVEL RESERVATIONS,** hotel accommodations, air, rail, steamship tickets—anywhere in the world—a one-stop call.

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 9)

HAWTHORNE BLVD. & 174TH ST., Torrance. MYRNA HERDER (8260-104, Tieline 2011, Ext. 40). (3-3-9)

PRAIRIE & COMPTON, Lawndale. DIANE A. BOURBEAU (8330-65, Ext. 2011, Ex.. 12). (3-3-9)

HIGHWAY 101 & PASEO DE GARCIA or Highway 101 & Palos Verdes Dr. (Will be willing to come at 7:00 shift if I can still leave at 4:15), Hollywood Riviera. VIRGINIA TYLER (3000-815, Ext. 1227), FRontier 5-2619. 3-3-9

(Zone 13)

CENTURY & HAWTHORNE BLVD., Inglewood. JULIET BOJORGO (3142-732, Ext. 1263), OR 7-7540. (3-3-13)

PLAYA ST. & SEPULVEDA BLVD. (Would prefer to join car pool), Culver City. P. J. PAULOS (3510-505, Ext. 1528), EX 79165. (3-3-13)

ARBOR VITAE & ANZA AVE. (In car pool only), Westchester. JIM HAINE (3310-13, Ext. 2564). (3-3-13)

LA BREA & ARBOR VITAE, Inglewood. RUTH CARTER (3140-746, Ext. 466). (3-3-13)

WILSHIRE & WESTERN BLVDS. OR SEPULVEDA & MONTANA. (Will start on 7:30 to 5:15 shift soon. Will accept either time for ride), Westwood. RALPH STANNARD (8330-107, 2011, Ext. 79), AR 9-0800. 3-3-13

(Zone 14)

BEVERLY & FAIRFAX OR BEVERLY & LA CIENEGA, Los Angeles. GERSTEN SHACKNE (3279-88, Ext. 405), WY 3882. (3-3-14)

CRENSHAW & 90TH, Inglewood. JOAN DOBSON (3140-711, Ext. 1839), PL 1-8265. (3-3-14)

7:30 a.m. — 5:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 10)

AVIATION & REDONDO BEACH, Manhattan Beach. E. C. BUNDY (8320-52, Tieline 2011, Ext. 11). 4-3-10

(Zone 13)

WILSHIRE & WESTERN BLVDS. OR SEPULVEDA & MONTANA. (Will start on 7:30 to 5:15 shift soon. Will accept either time for ride), Westwood. RALPH STANNARD (8330-107, 2011, Ext. 79), AR 9-0800. 4-3-13

8:00 a.m. — 4:45 p.m.
(Plants 1 and 2)

(Zone 9)

PRAIRIE AVE. & COMPTON (Just interested in ride for the morning), Lawndale. HAZEL B. GLENN (4290-16, Ext. 662-625), OS 6-7456. (5-1-9)

(Zone 10)

HAWTHORNE BLVD. & 133RD ST., Hawthorne. EILEEN BALLARD (4270-31, Ext. 637), OS 6-1019. (5-1-10)

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 5)

LAKEWOOD BLVD. & SOUTH ST., Bellflower. JOSEPH WM. AKERS (5124-220, Ext. 550), TO 76862. (6-1-5)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 3)

CENTURY & HOOVER, Los Angeles. SHIRLEY KRAGNESS (5235-219, Ext. 580), PL 5-0018. (8-1-3)

(Zone 4)

EL SEGUNDO & SAN PEDRO (San Pedro, Avalon, Main St., Broadway Ave), Los Angeles. JULIA A. BARROSO (5508-265, Ext. 1463). (8-1-4)

(Zone 5)

OLIVE & WILMINGTON, Compton. EDITH BLANKENSHIP (5235-218, Ext. 1847 B), NE 2-2086. (8-1-5)

ROSEMEAD—LAKEWOOD—ROSECRANS (Am interested in joining a car pool—will take riders or will ride with another). Arcadia. R. W. CAVENEY (5338-213, Ext. 2145), DO 7-4856. (8-1-5)

(Zone 9)

HAWTHORNE BLVD. & 162ND ST., Lawndale. THERESE L. EDWARDS (5507-264, Ext. 526), FR 92297. (8-1-9)

(Zone 11)

SUNDALE & 115TH ST., Hawthorne. SUE LEHOTSKY (5508-410, Ext. 2780), OS 6-3694. (8-1-11)

(Zone 14)

VENICE & LA BREA, Los Angeles. JIMMIE M. GRIDER (5585-221, Ext. 1381), WE 8-1156. (8-1-14)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 9)

PACIFIC COAST HWY. & AGATE STREET (Need ride home from work only), Redondo Beach. M. H. O'DELL (5502-289, Ext. 2741). (8-3-9)

(Zone 13)

ARBOR VITAE & LA BREA, Inglewood. BERYL L. JEFFERIS (5509-416, Ext. 2075). 8-3-13

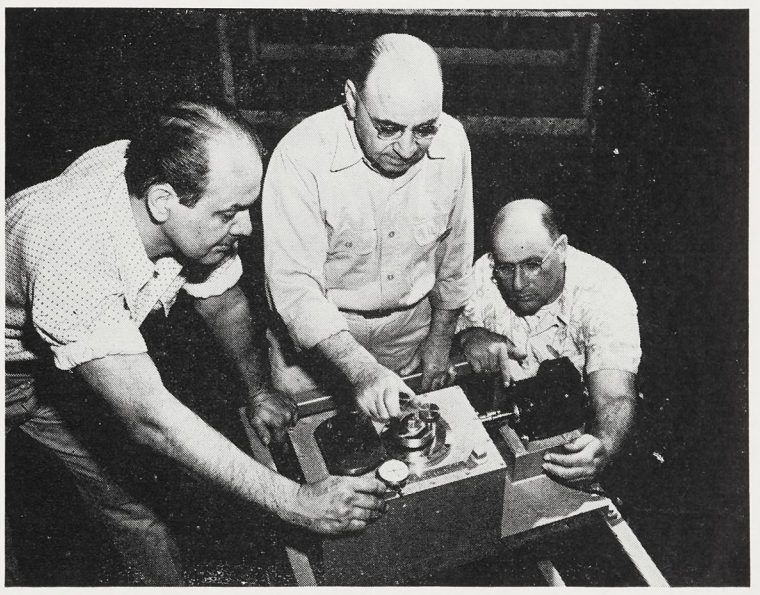
Optimist Honor For Norcrafter

NEWLY-ELECTED PRESIDENT of Ontario Optimist Club is Bob Snider, Industrial Relations supervisor at Northrop Ontario. He is shown receiving gavel of office from Smith D. Miner, immediate past president of Optimists. In addition to his activities in various community groups, Snider is presently holding office of Vice-president, Ontario Management Club.

Air Force Promotion

FIRST LIEUTENANT Gene Venezia, Air Force missile project officer recently promoted both in rank and job, receives his new "bars", sized appropriately to the occasion, from Lieutenant Colonel Ed Moose, himself recently promoted. Adjusting the ornaments with Colonel Moose is Henry Townsend, Production chief, as John Pratt, Production assistant chief, and Melvin Slade, Inspection general supervisor, check bar angles as being worn by the Lieutenant.

Gyroscope Idea



EXAMPLE OF GOOD TOOLING is check fixture built by Tooling Machine and Die Shop Norcrafters for use on Sperry gyroscope. Instrumental in building fixture were three men shown—Joe Chidester, leadman; Bruce Frank, who helped develop the idea; and Charles Fontecchio, who performed machining on fixture. Fixture is in use on line.

SCOUTING, LAND AND SEA, at the Jamboree were these Norcrafters from Hawthorne and Anaheim. Left to right, standing: Harry Greene, Management Control; R. D. "Tyrone" Koller, Flight Field; Norcrafters' sons: Ronnie Koller; Warren Smith; Charles Baker (pint-size chauffeur); Brad Proctor; Don Stanley; Don Stevens (Sea Explorer); Dan Driskel, Manufacturing Control-Anaheim; Frank Ziegler, Systems Administration; Charlie Ross, Optical Assembly; and Bill Patrick, Statistical Quality Control, Anaheim. Kneeling and sitting—Norcrafters' sons: Burt Wickman; Jimmy Lynn; George Pond; Jim Hart; Tim Driskel; Leonard Mattsson; and Douglas Johnson. Event was Scouts' biggest thrill.

ONCE IN A BOY SCOUT'S LIFE

Scores of Northrop Scouters Participate In Gigantic National Jamboree

Boys and leaders of the Third National Boy Scout Jamboree broke camp last week to head home.

Among them were many Norcrafters, young and old, who had spent their vacations or off-hours helping out through the week-long program of constructive scouting activity at Irvine Ranch, Corona Del Mar, and the Sea Explorer Base, Newport Harbor.

By land, by sea,—even in the air—Norcrafters have shown themselves prepared for the once-in-a-lifetime event.

Meeting the Northrop News photographer on July 21 were many of those participating (see photos), though not all.

Frank Ziegler, Systems Administration, was there officiating at the Los Angeles Area Council Equipment tent. R. D. "Tyrone" Koller, Flight Field, was there as assistant scoutmaster for Jamboree Troop Number 26.

Harry Greene, Management Control, was Pasadena-San Gabriel Council activity chairman while Lou Proctor, Research and Analysis, was assistant scoutmaster for Jamboree Troop Number 4 from the Manhattan Beach area.

Chairman of Hawthorne Troop 33 committee, arranging for a "Wagon Wheels to Wings" display, was Hoyt Shaw (8340).

Charlie Ross, NRC-Anaheim Scout Commissioner and committee man for Sea Explorers Ship Number 288, Placentia, was doing duty on the Jamboree Water Safety Patrol operating out of the Sea Explorer Base, Newport Harbor.

Others from Anaheim included Bill Patrick, "Chuck" Gallion, Bob Peterson, Dan Driskel, Bob Pitcher, and Cal Willis.

Not to be outdone by other facilities, Ontario was dramatically represented when, shortly after photos were taken, Gene Townsend, Ontario production test pilot, appeared. Gene was seen—and heard—high above the Jamboree tent city as he flew an F-89 Scorpion along the coast on a routine test flight.

WATER SAFETY PATROL, covering coastal and bay waterways for Scout Jamboree, operated out of Sea Explorers' Base in Newport Harbor. Being welcomed aboard The Placentian, Sea Explorer Ship Number 288 of Placentia, is landlubber, ex-Scout District Commissioner Bill Patrick, of Anaheim. Charlie Ross, pulling Bill aboard, is Anaheim Norcrafter, committeeman for ship. Saluting is Don Stevens, son of Norcrafter Imogene Stevens of Santa Ana. Tony Budlong, Maritime student, is junior mate at the helm of the ship.

The Old World Attracts Three for Summer Tours

A luncheon date next September 3 in Heidelberg, Germany, will bring together two of three Accounts Payable Norcrafters who are touring Europe this summer.

Ella Fike and Leona Lewis have already made plans to meet on that date; but by then Marilyn Crawford will be in Paris, almost ready for her return. Marilyn will miss meeting Ella by six hours; she leaves Heidelberg on the day Ella arrives, but 360 minutes too soon!

Ella, who will be traveling with her two sons, expects to arrive at her old home in Speier-am-Rhein exactly 23 years to the day she left it for America—August 11.

She will meet there, for the first time in those 23 years, her mother, brothers, and numerous other relatives. A trans-Atlantic phone call to her mother last year, in fact, laid the groundwork for this summer's visit.

She expects to return to Northrop in November after having had the keen pleasure, as she expressed it, "of walking along the streets and paths I walked on so many years ago."

Leona Lewis is scheduled to leave on the first leg of her journey today, driving to New York with friends.

She embarks on the S. S. America on August 14 on the overseas lap of a tour which will take her through 13 countries before she returns on the famed new S. S. United States, fastest ship on the seas.

Leona looks forward mostly to her visit to Rome; the trip is in the nature of a pilgrimage to that city of antiquity.

She had a slight delay in arranging her passport—her birth certificate had been lost when the courthouse in Trier township, North Dakota, burned; but a baptismal certificate and school records became effective substitutes.

"The odd thing," she laughed, "is that I'll be going through Trier county in Germany on my trip!"

Her tour party will be in Heidelberg on September 3, and there Ella will meet her for lunch.

The third of the trio to vacation in Europe is Marilyn Crawford, who started her trip, with her husband, Jack, on July 15.

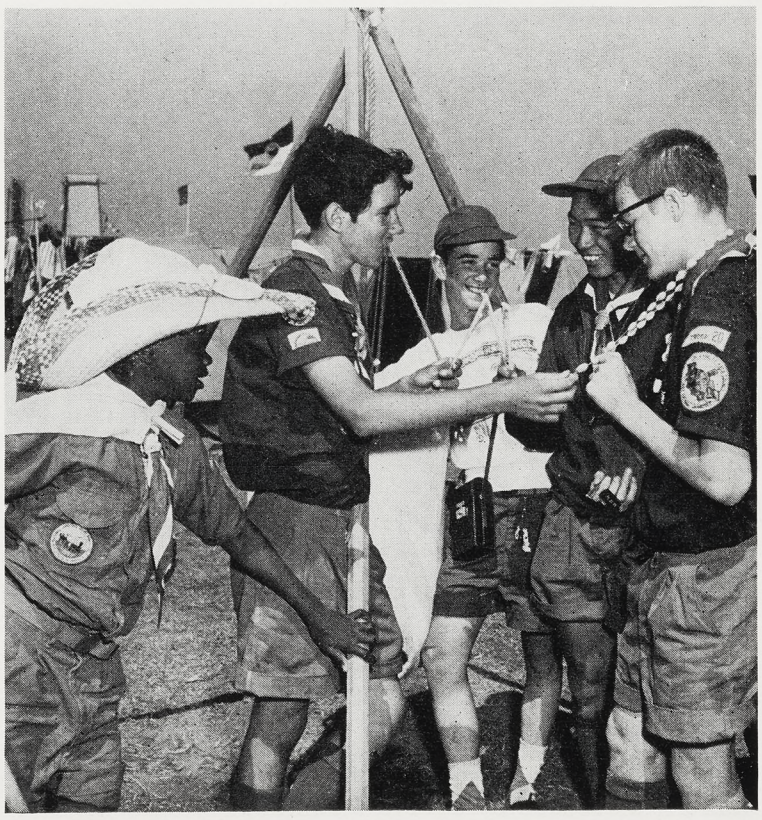
They embarked on a 35-day tour of the continent after planning to visit a friend in London and relatives in Scotland.

Jack, an accounting student at Santa Monica City College, had hoped to study in Switzerland, but found no courses compatible with his curriculum. Through the year, though, he has been studying ancient art, architecture, and history, with the trip and its enjoyment uppermost in mind.

Marilyn's trip winds up with a week in Paris, and the Air France flight to the States will end a trip she has been counting on for more than a year.

With the three girls working at desks in the same section of the department, you can bet there were notes compared on trips during break and lunch periods, and before and after work!

And many were the sighs of pure envy from all around them!



SWAPPING CHOPSTICKS (Hashi) for shell necklaces was almost as common a sight as boys in shorts at Boy Scout Jamboree where all colors and creeds were represented. From left: Jamboree Scouts (not Norcrafters' sons, but from all over world) Adeneyi Paris; Richard Thompson; Dennis Saut; Ray Kata; and Mark Westfall. Thompson was doing all right speaking with Kata in Japanese, making the trade.

SPORTS

The Northrop News

N.R.C. Good Time Table

For enrollment or information on activities listed below, call or contact Personnel Activities and Services, Plant One, 637; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BALLROOM INSTRUCTION
Meets first and third Saturday each month, 8:00 to 10:00 p.m., NRC Clubhouse. Next meeting Aug. 1.

BIBLE STUDY
Al Barnes, acting commissioner
Meets daily, Conference Room 1-5. 11:00 a.m. lunch period. Plant III 12:15 p.m. Conference Rm. 5.

BOAT CLUB
Harold Senter, commissioner
Meets Monday, Aug. 3, NRC Clubhouse. Cruise Movies and Color Slides. Photos of Cruise to be shown and orders taken for copies. Discussions on Navigation and small boat handling and radio direction finder, if time permits.

BRIDGE
Bill Close, acting commissioner
Meets first and third Tuesdays each month, 7:30 p.m., NRC Clubhouse.

CAMERA CLUB (DAYS)
Walt Darby, commissioner
Meets every other Friday, NRC Clubhouse annex. Next meeting Friday, Aug. 7, 8:00 p.m.

CAMERA CLUB (NIGHTS)
First formative Meeting, Sat., Aug. 1, 7.30 p.m., NRC Clubhouse.

CHESS CLUB
Ed Fisher, acting commissioner
Meets every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

FISHING (DAYS)
Hal Hathorne, commissioner
Next cruise of the month Saturday, Aug. 8, the "Ine". Make reservations at PA&S.

FISHING (NIGHTS)
Chuck Bija, commissioner
Next cruise of the month Sunday, Aug. 16, the "Terleen" and "Uncle Toby." Make reservations at PA&S.

FLYING CLUB
Joe Carver, representative
Being reorganized, memberships available. Call PA&S for further information.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Room. Plant One group meets Thursday, 11 a.m., Conference Room T-1.

GOLF CLUB (DAYS)
Jim Milne, commissioner
Twilight league play at Alondra Park and Western Avenue Golf Course.

GOLF CLUB (NIGHTS)
Bill Levens, commissioner
Night Shift Golf League plays every Thursday Morning, 8:30 a.m., at the Fox Hills Country Club.

MODEL RAILROAD
Gene Boggess, acting commissioner
Meets Wednesdays, 7:30 p.m., 1016 No. Market St., Inglewood. Sunday, 9:00 a.m. to 12:00 noon. Picnic planned for Aug. 9. Call PA&S.

PHILATELIC
Leo Satterlee, commissioner
Meets Monday, August 10, 7:30 p.m., NRC Clubhouse. Juniors—7:00 p.m. Group meets second and fourth Mondays, Clubhouse Board Room.

RIDING CLUB
Don Danner, commissioner
Next Ride Saturday Aug. 1, 7:30 p.m., Circle Bar Ranch. Moonlight ride & Wiener Roast. $3.00 per person. Reservations must be in by July 30th.

SEA SCOUTS
Jimmy Scott, representative
Meets every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next shoot Aug. 8.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be July 31, NRC Clubhouse Board Room.

SOFTBALL
Paul Wheeler, commissioner
Day and night shift interdepartmental teams play daily at Rosecrans Playgrounds, 149th and Vermont. Night shift, 10:30 a.m.; day shift, 6:00 p.m.

SPORT CAR
Bruce Vernier, commissioner
Meets first Thursday each month, NRC Clubhouse. Next meeting Aug. 6, 7:30 p.m. Road race movies. All-Aircraft time trials, Costa Mesa, Aug. 2.

SURF FISHING
Ted Griswold, acting commissioner
Meets Wed. Aug. 10, NRC Clubhouse.

SWIMMING
Betty Jo Razor, act. commissioner
Meets Wednesday and Friday from 4:30 to 6:30 p.m., at Leuzinger High Pool. No charge.

TOASTMASTERS (DAYS)
Jack Akin, representative
Meets every Thursday evening, 6:30 p.m., Western Club Cafe, 15516 So. Western, Gardena.

TOASTMASTERS (NIGHTS)
All interested Norcrafters submit name, department, and clock number to PA&S.

TRAILER
All interested Norcrafters submit name, department, and clock number to PA&S.

TROPICAL FISH
First formative meeting, Wed., July 29, 7:30 p.m., NRC Clubhouse.

GIRLS' NINE IN THRILL-DILL

ONE-HAND STOP BY CROOKSTON— TRIPLE PLAY

The Northrop girls' NRC Softball team, playing in the Women's Open Softball League at Ladera Park in Inglewood under the auspices of the Los Angeles County Park and Recreation Department, began its league season by winning two out of the first three games.

In their first encounter on the diamond, the Northrop girls were defeated by Hughes Aircraft 27 to 0, but came bouncing back to win the next two games from the "Cut Ups" (15-7) and the "County Kids" (19-5).

The latter game was highlighted by a triple play in the final stanza when, with bases loaded and no outs, the County Kids were retired. The triple play started with a sensational one-handed catch of a line drive by Pat Crookston, second base. In an effort to double off the runner on first she overthrew the base; first baseman Beverly Purkey scrambled for the ball and threw to Bess Gherna who had come charging in from her position in center field to cover first in time to complete the double play. Bess' throw to shortstop Reese Counsell on second was in time to triple off the runner who was by then too confused to return to second base! (Ed. note—See how easy!)

The next scheduled game will be at Ladera Park on Tuesday, August 4, 7:00 p.m. Opponents will be the Cut Ups. All Norcrafters and friends are cordially invited to come out and root for the Northrop girls.

FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 637. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BOWLING
Ruth Wallace, act. commissioner
Leagues now in progress, Thursday, 6:30 p.m., Hawthorne Bowl.

DINNER CLUB
Cathy Waffel, commissioner
Interested ladies contact PA&S.

GOLF
Nora Donnici, act. commissioner
Tuesday evening only, 7:00 p.m., at La Tijera Driving Range, 7301 Osage Ave. Lessons $1.

INTERIOR DECORATING
Donna Pratt, acting commissioner
Meets every Thurs., 7:30 p.m., NRC Clubhouse. Weaving instruction provided.

KNITTING CLUB
Nina Shannon, act. commissioner
Meets Wednesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

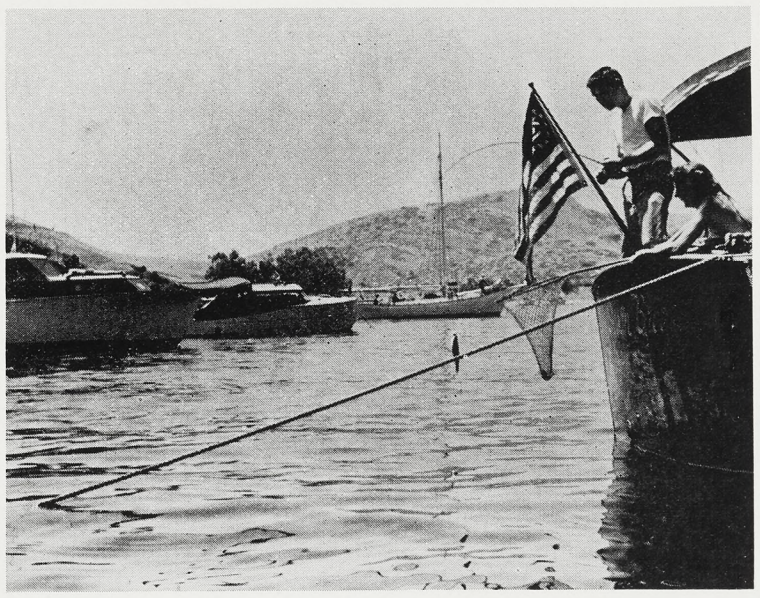
MARINERS
May Hawkins
Meets Thursday, 7:30 p.m., Scout Cabin, 134 Grevillea, Hawthorne. Open to teen-age daughters of Norcrafters.

SLIM 'N TRIM
Dorine Benkendorfer, act. commissioner
Meets every Monday, 7:30 p.m., NRC Clubhouse.

SOFTBALL
League in progress—Ladera Park, 7 p.m., Tuesdays.

TOASTMISTRESS
Marie L. Sauer, representative
Meets first and third Thursday, NRC Clubhouse. 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

The Cool, Green Cove



ANCHORED for the night in Emerald Cove—. Participating in the over-night cruise to Catalina Island were seven cruisers, one utility boat and one sailboat. Colored movie and slides of the trip will be shown at the next NRC Boat Club meeting, Monday, August 3, 8:00 p.m., at NRC Clubhouse. All Norcrafters and friends are invited to attend. For information on club membership, call PA&S, Sta. 637. Shown in boat are Johnny Stratton and Helen (Mrs. Elmer) Chido.

STEAK FRY was highlight of evening on Catalina Island for NRC Boat Club members and wives. Seated around the campfire clockwise are: Marie Rodgers, Emily Metzger, Betty Senter (wife of Boat Club comish), Phyllis Ward, Herb Ward, Doris Dillard and Judy Sabo. Forty-seven Norcrafters and friends made the two-day cruise from California coast.

ALL BOWLERS— ATTENTION—! WINTER LEAGUES

Entry blanks — individual and team—will be available on Monday, August 3, to all Norcrafters who wish to participate in the Northrop Winter Bowling Leagues.

Entry blanks may be obtained from Personnel Activities and Services, Plants One and Three, or at Morningside, Windsor and Hawthorne bowling alleys.

Entry blanks must be completed and returned to Bowling, c/o Personnel Activities & Services, Plant One, no later than Friday, August 14.

For further information, call PA&S, extension 637.

Comish

JIM MILNE, Loft and Tooling, is the newly elected commissioner of NRC Golf (days). Jim is 5-year Norcrafter and an outstanding club stalwart.

Ladies' TM Chartered Nationally

By JEAN DORAN
NRC Publicity Representative

(Pinch hitting for Prexy Joe Cribbs, who has packed into the golden trout lake area of the High Sierras).

The Northrop Toastmistress Club will celebrate obtaining its charter from International Toastmistress Clubs with a dinner party on Thursday, August 20, 7:00 p.m. The gala charter-dinner party will be held at Ted Owen's in the Crenshaw district. Charter memberships are open until that night; however, Norcrafters are welcome to join the club at anytime. Toastmistress members and their husbands or escorts as well as other friends who have assisted in the newly-formed group are invited to attend the party.

Joe Cribbs

* * *

NRC Golf Commissioner (days) Jim Milne—see pic this issue—arranged for Mike Austin, pro golf instructor, to attend the club meeting last Thursday evening, July 23, to demonstrate swing form and swing analysis. The Austin session covered every club in the bag from driver to putter and if the tee-folk looking and listening aren't better golfers today, it's not Mike's fault. The good program was staged in cooperation with special events committee, headed up by ex-Comish Ash Dunning. Film, plus Q&A period, "topped" off the program.

* * *

Someone you know has MS—Multiple Sclerosis. Right now some one at the height of his productivity is being laid to waste. For MS, in most cases, means a long, slow decline. Research can defeat MS, but research takes money. Through the Southern California Chapter of the Multiple Sclerosis Society you have a chance to help. The dollars you give during the August 15 to September 15 drive are the best investment you can make for the future—of someone you know. Please send your contributions to MS Society, 4816 Melrose Avenue, Los Angeles 29. The telephone number is NOrmandy 1-2165.

MOONLIGHT RIDE NEXT ON SCHED FOR RIDE CLUB

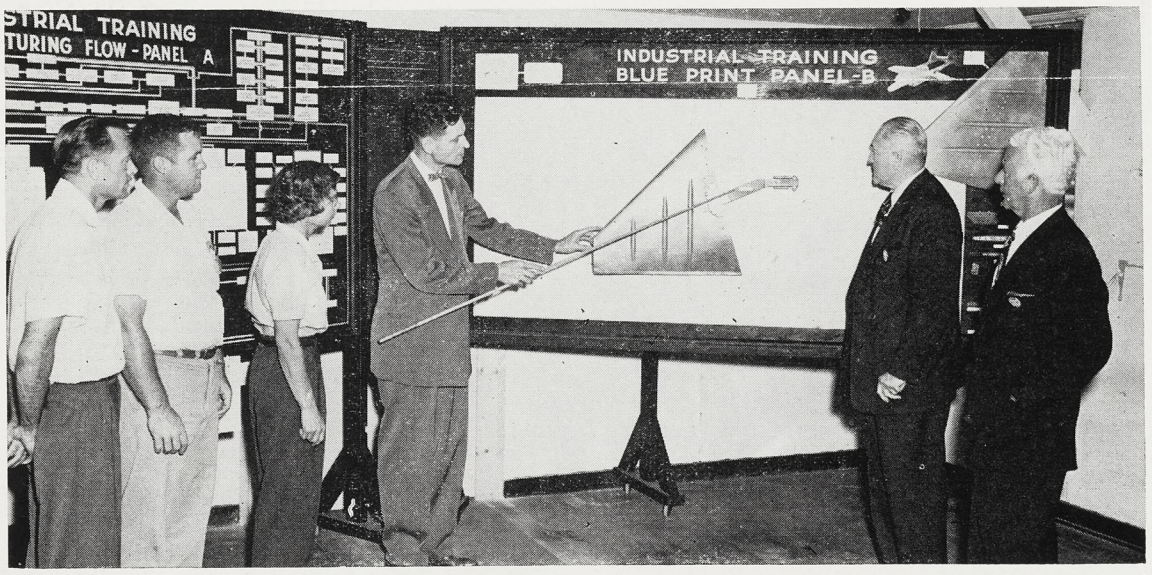
The NRC Riding Club has planned a moonlight ride to be followed by a wiener roast next Saturday, August 1, it is announced by Riding Comish Don Danner. Group will meet at Circle Bar Stables, East Imperial Highway, at 7:30 p.m.

Cost will be $3.00 per person, including both ride and wiener roast. Reservations must be made by Thursday, July 30. Call Personnel Activities and Services, extension 637.

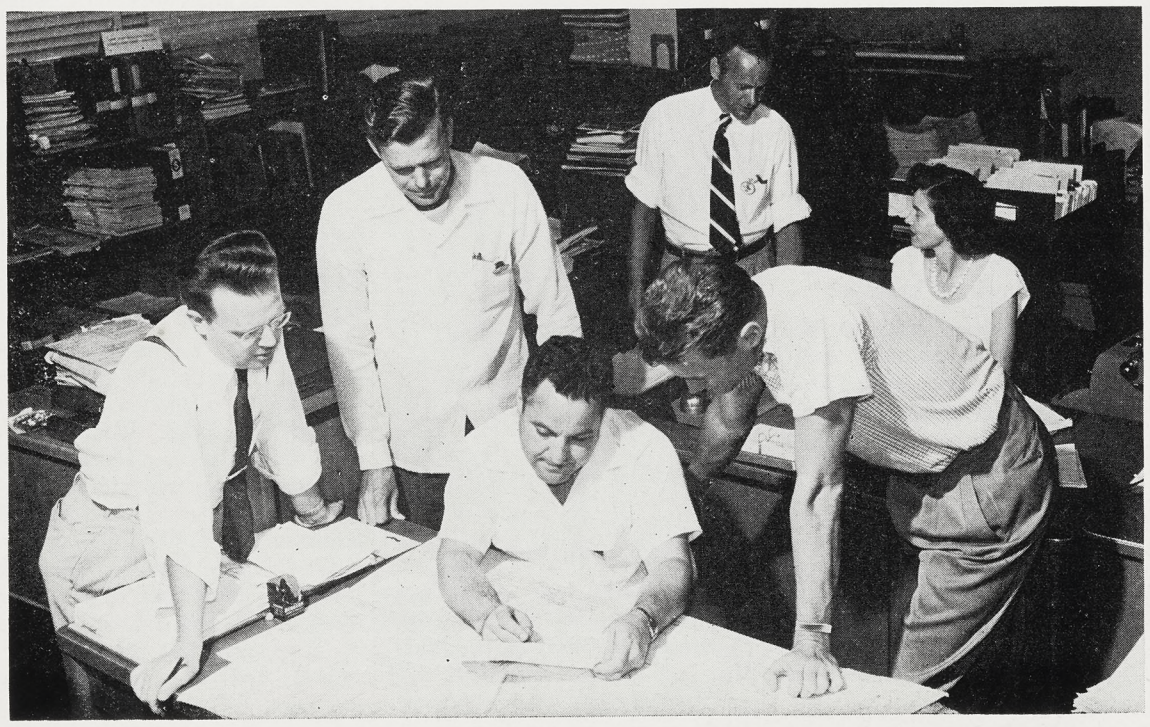
THE Northrop Scene BY DAY AND NIGHT

Ontario's Winning Float in All-States Parade

FIRST PRIZE FLOAT was Northrop entry in parade held in connection with Ontario's gigantic All-States Picnic, recent community attraction. Float representing combined efforts of more than 65 Norcrafters and their families, was in fiftieth anniversary of powered flight motif; contained 5,000 fresh aster reeds and gladioli, some of them dyed to create the red, white and blue effect desired. Spelled out on the float was the increase in airplane speed in the half-century from 30 to 600 miles per hour. Riding the float was Patty Wheatley, Ontario high school graduate, "pin-up girl" of Ontario Norcrafters, holding NRC banner. Idea of float was helped along by Public Relations department, Hawthorne.

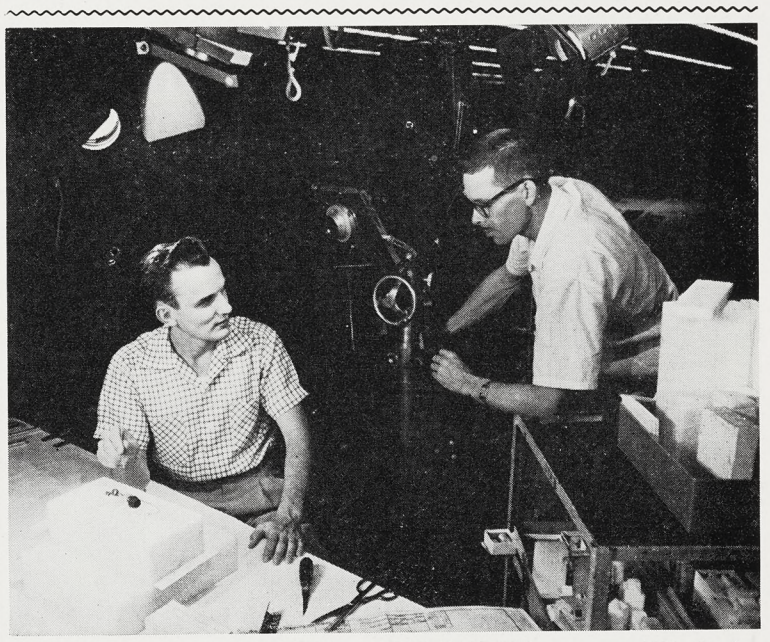


TRAINING OF INSPECTORS on blueprints, inspection paperwork, is development of Industrial Training department —. Shown looking over blueprint reading panel (and life-size part that is subject of print) are students C. A. Tanner, L. G. Kendall, and Thelma Alexander; Instructor Ed Barens; Cliff Hindle, supervisor of Industrial Training; and Ben Trump, administrator, Wage and Salary, in charge of training. At left is flow chart, which shows necessary paperwork accompanying part through plant. Course, three weeks, uses most modern methods to prepare Quality Control personnel for Scorpion inspections.



It's Small World . . .

WHEN JOHN FELDER, of Engineering Equipment, was draftsman for the Air Force at Hamilton, he recommended trapdoor under R.O. seat in Scorpion for easier access on repairs, maintenance. Starting at Northrop, first item he saw on desk next to his was E.O. for trapdoor. Small world!



HAWTHORNE-ANAHEIM TEAMWORK exemplified by Fred Bailey, left, commercial artist, and Val Hawes, Photo Lab —. Former arranges exploded set-up displays for photographer to shoot; pix then are used in manuals being done under special engineering services contract at Anaheim. Hawes, Bill Armstrong (see below), and Hank Steffen, Customer Service, toured several eastern arsenals for familiarization on manuals. (See story, page one of this issue.)

Norcrafter Teamwork

ANAHEIM TECHNICAL DATA section Norcrafters are at work on range-finder manuals for Ordnance Department —. Here, from left to right in foreground, are Bill Bartsch, coordinator of project; Joe Bradford and Andy Cannava, spare parts analysts; and Bill Armstrong, section supervisor. In background: Doug Short, standard parts analyst, and Betty Curtis, typist. Customer Service Norcrafters in Publications section are writing manuals and doing art work.

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California — Wednesday, August 12, 1953

Scorpion Transport Story

(See Pages 4 and 5)

SERVING to commemorate anniversary of retirement plan, Eli Webb, janitor in Model and Quick-Fix, exercises his rights, privileges under retirement plan, retires after 12 years Northrop employment. Co-workers — front: Elaine Steiner, clerk; V. H. Bladel, Iris Boule, Retirement; Webb, C. R. Hoskins, L. E. Boswell, W. F. Effleston, A. G. Russu. Other well wishers from Departments 5515 and 5538 in background are: A. J. D'Aquila, R. E. Westlake, Anthony Jensen, C. H. Magnuson, S. E. Ton, W. W. Manderbach, L. H. Ogden, J. M. Schneider, T. E. Lundgren, E. J. Vandal, Philip Cribby, Wallace Gray, Robert Starkel, Louis Daugherty, J. J. Simmer, R. L. Belluzzi, R. S. Wallace, L. O. Schneider, L. O. Prueter, R. L. Grigg, Lincoln Blevins, M. R. England, C. M. Higgins, N. O. Stringer, Albert Beyer, W. D. Wallace, J. O. Wood, J. E. Meltabarger, J. E. Landry, W. P. Bailey. Webb receives, ala "Life" style, Certificate of Service, monthly retirement check, life subscription to the News, life membership to NRC, and personal gifts from the department, plus a cake and many happy loafing wishes.

SPARE PARTS IDEA EARNS $$

LEE MATTHEWS, JR., AWARDED $500.00

Lee C. Matthews, jr., coordinator in Department 5337, Spares Coordination, in his first try at Suggestion Awards has succeeded in taking home $500, with the possibility that additional awards may accrue.

Lee's suggestion for the advance, single shipment of large quantities of spare parts of small dollar value will save the company and the Air Force hundreds of hours and thousands of dollars.

His initial reward was the $500, presented to him by his supervisor, C. L. "Chuck" Fleming, project coordinator, on behalf of the Management Award committee.

Formerly, Lee noticed, spares were being built to coincide with delivery schedules; with that process, he took note, there inevitably resulted numerous split orders, with consequent multiple handling of the parts. Accompanying paperwork, then, was voluminous.

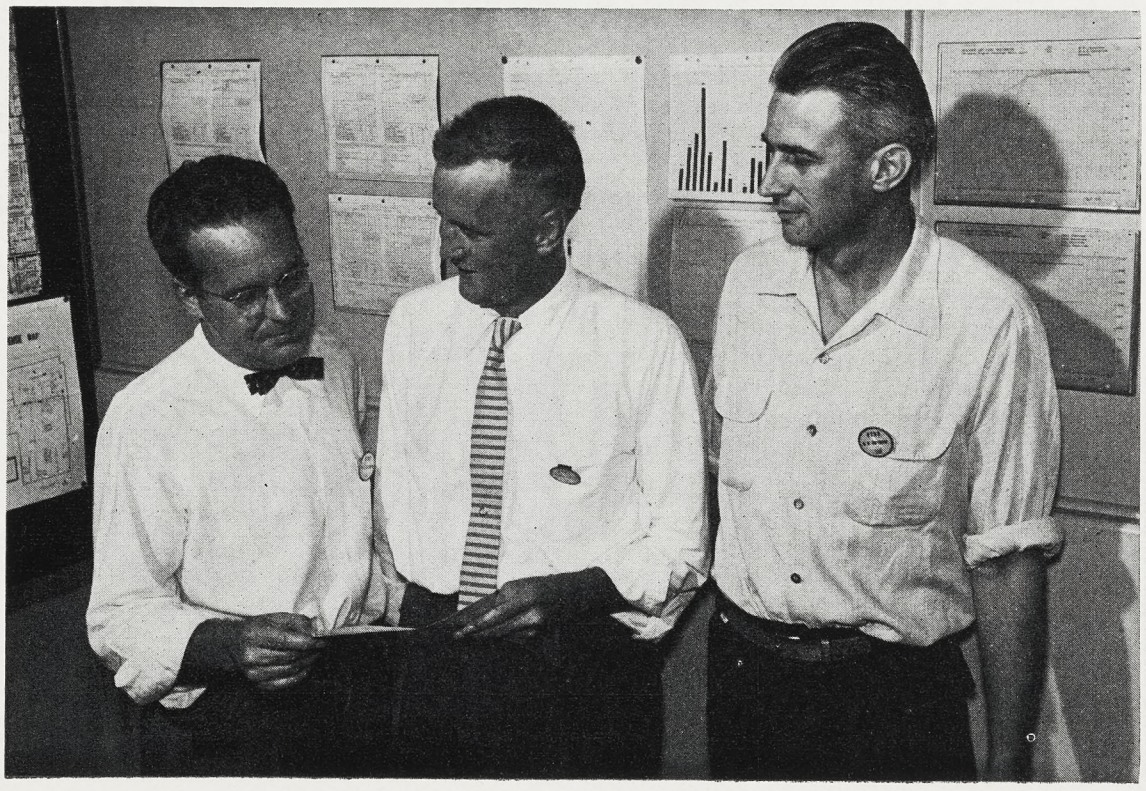
Under Lee's suggestion, theoretically all small parts (those costing $15 and less) could be manufactured at once for each large airplane contract, and they could be shipped at one time. The process is technically called "pre-concurrent shipment".

The plan has already been put into practice on one contract, and it is evident that the savings are spreading through several departments.

Not only has the originating department seen savings, but also Material and Shipping departments have reported them, as have Quality Control departments.

In his original suggestion Lee

(Continued on Page 2)



INITIAL AWARD of $500 for super-suggestion, with possibility of more to come, was made to Lee Matthews, jr., Spares Coordination, who is shown between C. L. Fleming, project coordinator of department, and George Putnam, Suggestion Award department, who investigated the suggestion. High award was made by Management Award Committee, will be reviewed later for possibility of adding to initial sum.

NORTHROP RETIREMENT PLAN BIRTHDAY

SEE STORY PAGE 3

MAT CON STALWARTS NAMED

SAFETY-CONSERVATION COMMITTEES

Newly-appointed Mat Con Safety-Conservation committeemen have been meeting during the past few weeks with their predecessors on the various shop committees for initial looks at the program now developing.

At first meetings the new members were given outlines of their duties, performance of which brings the material conservation and safety programs into the shops and offices of the company.

Appointed to four-month terms, the committeemen were assured of the backing and cooperation of the former members of the S-C committees. The latter automatically become certificated permanent members.

A partial listing of new committees follows.

FABRICATION

SHOP FABRICATION (Bart Maloney, chairman): — Jack Cooper (5160); E. C. Smith (5161); Dorothy Young (5224); Robert Gibson (5353); H. T. Sell and Pierre St. Amour (5501); R. C. Balcom and W. H. Howell (5502); L. E. Perkins and R. P. Wilson (5503); E. M. Olmstead, Norm Olson and R. L. Plowman (5508); Vena Weinert (5509); Edna Ertz and O. A. Hobbs (7210).

ELECTRO-MECHANICAL LABS (R. A. Hall, chairman):—Monte Beale, Tom Eberhart, Minor Griffey, and Walt Brown (5910); R. O. Brenton, E. L. Piette, and J. B. Severns (5920); H. P. Davis, K. M. Gilchrist, and Richard Gorum (5930); Art Dicks and E. J. Whited (5940).

TOOLING (Gordon Grimm, chairman): — R. D. Klein (5221); J. P. White (5231); E. E. Fitzpatrick (5241); Harvey Osburn (5354); J. S. Emerick (5406); A. W. Brinkley, R. E. Faulkner, and D. L. Thompson (5411); W. F. Byrnes and W. F. Roper (5437); C. J. Fontecchio, L. L. R. O'Neill, and Frank Thompson (5445); and Glenn Woolpert (7220).

FINAL ASSEMBLY (Rex Thornhill, chairman): — E. L. Askins, A. A. Lucas, and J. V. Edgar (5508); J. N. Peterson, E. H. Ford, N. R. Williams, and Moses Gomez (5510); Alfred Weibers (5515); Sue MacLaren (5520); G. H. Briggs (5819); George Williams, Roy Kaley, and Norris Smith (5589); L. M. Pikop and John Pawlicki (7310).

ASSEMBLY

SUB-ASSEMBLY (Roy Prueter, chairman):—Helen Coveney (5504); Alice Runser (5507); Don Burtch (5517); M. M. Baker (5524); E. D. McMurray (5534); W. N. Lewis, jr. (5544); Alfred Cameron, Ray Panfili (5585); Henry Solak and June Dobkoski (5586); Dick Piper and G. L. Russell (5587); Delton Pierce (5588); Maxine Frank (7230).

SPECIAL WEAPONS (Tom Duddleston, chairman): — J. G. Aycock, L. W. Smith, and J. M. Mercer (5231); R. S. Sheehan and B. E. Smelser (5338); A. L. Nelson, jr. (5411); C. C. McBride, W. H. MacDowell, and Leila Margulieux (5620); Thomas Grettum and Allen Gosage (5621); Harold Krabbe and R. I. Cumstay (5920); M. W. Lemons and D. D. Day (6150); R. B. Heil (7510); and M. M. Bartmus (7520).

MATERIEL (Ken Burnside, chairman): — R. J. Hanold (4130); Jones Anthony (5165); Jeanne Hanna (6269); Romeo Chenier (6325); Eleanor Darnold (6335); James Green, Carl Pierce, and Pat Hurst (6355); Fred Woods and Pat Pucirello (6378); Joe Abbott and Ken Cline (7100).

SHOP FABRICATION, nights (Woody Jones, chairman):—W. J. Bibb (5161); Charles Russo (5224); J. S. Gillies (5353); Treamon Elrod and Oliver Huffman (5501); E. A. Gherna and J. W. Sims (5502); M. A. Crean and R. B. Browne (5503); A. L. Gibbs and E. S. Prince (5508); and P. E. Frisbie and R. O. Jones (5509).

TOOLING, nights (Fred Griffin, chairman):—W. L. Capps (5161); J. A. Carrier (5221); D. O. Vaughan (5231); H. J. Stevens (5241); Robert MacDonald (5354); Eloise Mahan (5406); Fay Brown, K. M. Pyott, and C. H. Wigley (5411); Delmar Molle and Hardy Barnard (5437); Z. H. Hart and L. R. Rumbaugh (5445); and Frank Lewis (7220).

MORE NIGHTS

FINAL ASSEMBLY, nights (Frank Brannon, chairman):—Ken McFarlin and Duane Harrington (5508); J. E. Phillips and Joe Crawley (5510); Hugh Kiser (5515); Steve Srstka (5165); Raymond Fletcher (5520); B. G. Balducki, Bill Blankenship, and C. E. Hughes (5589); M. M. Bell (5819); Don Gregory (7310).

SUB-ASSEMBLY, nights (Len Haueter, chairman):—P. A. Hoskins (5165); Virginia Densmore (5504); E. E. Huesby (5524); B. E. Braithwaite (5534); R. A. Smith (5544); E. L. Murphy (5507); F. F. Todd (5517); Stan Robertson (5584); Don Anderson and Emilie Martinez (5585); Tom Hopkins, Jr. (5587); O. B. Patton (5588); W. H. Quisenberry (6382); Jim Altgilbers (7230); George Nosacka and Stan Gordon (7310).

SPECIAL WEAPONS

SPECIAL WEAPONS, nights (Bill Boyes, chairman): — Robert Bauer (5338); Ron DeMarquette (5538); C. W. Phillips (5411); Doris Lowen, M. S. Kereluk, Norma Parr, and A. L. Jennings (5620); R. D. Forbush and Edith Smith (5621); Ruby Goodfellow (6150); W. J. Clark (6720); S. L. Scott and W. L. Filer (7520).

WAREHOUSING, nights (Horace Dutcher, chairman):—W. H. Seifert and Paul Hughes (6230); Don Mahr (6250); Jay Scott (6269); D. D. Martin and Dorris Robinson (6325); Bernice Martin, James Jones, Marvin Pantier (6355); Ben Donnelly and Dona Pedersen (6378); J. M. Wallace (7100).

MORNING SHIFT (Jack Miller, chairman): — Sergeant Michael Manning (4120); Henry Windle (5161); Ed McGovern (5163); Grant Bliss (5164); Ed Connell (5241); Joe Stalcup (5508); Percy Barnes (5509); John Robertson (5530); Jack Sowards and Al Boshear (5587); Jack Reynolds (7310).

Other new committee members' names will be released in an early issue of the News.

Suggestion Award...

(Continued from Page 1)

pointed out some of the benefits which would accrue from the installation of the practice: eliminate splitting of approximately 250 shop orders ten to twelve times each; manufacture the entire contract requirement at once, instead of in 10-12 operations; reduce the number of splits from 20,000 to 5,000; and numerous other advantages.

The idea, although new in practice, has been in Lee's mind for "a couple of years," he said.

"I've thought of it off and on during that time, and finally decided to send it to Suggestion Award in the proper form."

If savings reach the totals currently indicated, Matthews may receive the maximum award of the Suggestion Award plan—$1000. Two Norcrafters at Hawthorne, and one at Anaheim, have previously reached the record total, and a number have received only slightly less than that figure.

The Suggestion Award plan, dependent upon the initiative and ingenuity of Norcrafters, is a thriving facet of the company's efforts toward conservation.

SAFETY ENGINEER MADE MEMBER OF EISENHOWER SAFETY CONFERENCE

Northrop Safety Engineer Lee B. Johnson has been invited for the fourth consecutive year to serve on the President's Conference on Occupational Safety, he learned last week.

Norcrafter Johnson, one of four Southern Californians to serve on the Conference, will be on the Engineering committee, whose chairman is Dean Boelter, of the University of California.

The invitation came from William L. Connolly, chairman of the group's Coordinating Committee and director of the Labor Department's Bureau of Labor Standards.

Connolly's letter stated that President Eisenhower has directed Secretary of Labor Martin Durkin to intensify the work of the Conference. Durkin serves as general chairman.

"Management, labor and public and private agencies share an obligation to safeguard their fellow citizens employed in the workplaces of the Nation," the President wrote . . . "I am glad that the Coordinating Committee of the conference wishes to have this voluntary activity continued."

Protection for the Law

BULLET-PROOF SHIELDS are compared by Officer T. J. Goeckner and Sergeant Harry Warner, Plant Protection. Goeckner has developed, in collaboration with Swedlow Plastics Company, Los Angeles, a new, lightweight, bullet-proof shield now being sold nationally to law enforcement agencies. "T. J." himself is retired veteran of law enforcement work, having served for 20 years as deputy sheriff and state and municipal policeman in Idaho before coming to Northrop two years ago. Shield will withstand 00 buckshot.

T. J. Goeckner Invents Bullet Stopping Shield

Approximately 16 years of spare-time planning have gone into the portable bullet-proof shield—first of its kind—recently devised by T. J. Goeckner, Plant Protection officer, in collaboration with the Swedlow Plastics Company, Los Angeles.

He started thinking about the project in 1937, "T.J." relates, with an ever-lighter, yet stronger, shield in mind. With the coming of plastic materials such as fibreglass, he found what he believes to be the answer, and he has copyrighted his development.

Tests of the "Little Joe" shield have already resulted in sales to law enforcement agencies, and a national advertising campaign is now beginning.

In the tests T.J. held the bullet-proof shield while being fired at from 25 feet with .45 automatic, .38 revolver, a .30 caliber German Mauser and a 12-gauge shotgun with double-0 buckshot. A movie made of the demonstration is being used in the sales campaign.

T.J. is a veteran of 20 years in the law enforcement field. During those two decades he was a deputy sheriff, state policeman, and served on municipal police forces in Idaho. He has been a Norcrafter in Plant Protection for two years.

High National Honors For Financial Report

Northrop Aircraft won first place for its 1952 annual report to stockholders in the recent National Offset-Lithography Competition sponsored by the Lithographers' National Association, Inc., it has been announced.

The Public Relations division coordinated production of the prize-winning report in collaboration with Administration, Finance, Manufacturing and other Northrop departments.

Northrop's publication, which featured an F-89D, a simulated missile, and a range finder eyepiece on the cover, was printed by the Jeffries Banknote Company of Los Angeles.

Northrop News
Vol. 12 Northrop Field, Hawthorne, Calif. No. 2

Published every other Wednesday by
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JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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Muscle vs Culture--This Is Burning TV Question

What about the TV question—? Boxing, wrestling, baseball, and jalopy races seem to line up on one side with plays, variety shows, educational and cooking on the other side. How do Norcrafter families meet this TV problem? Inquiring Reporter has sampled the consensus—.

Sergeant Thomas Ames, Plant Protection: "There are five people at our house, all adults, and we are all avid TV fans. The three of us who are away during the day have very strong feelings about the television 'belonging' to us in the evenings. But we don't have too much trouble choosing the programs now as we all like to keep up with baseball."

R. E. "Bob" Ramos, Loft and Template: "It's a little crowded around our television set — there are ten people in the house. Of course, every one isn't there trying to get his favorite every night. There's not much you can do except let the majority rule . . . majority of those who have jobs, that is. We feel the others can watch anything they like during the day."

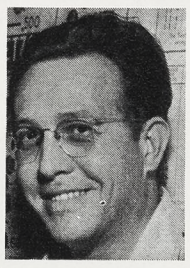
Jean Hatcher, Military Relations: "There's no question at our house about which station we will watch — my mother sees the baseball games! I'm always busy before game time, and it's time to go to bed by the time the game is over, so I have resigned myself to wait out the season. Other than baseball, we pretty much agree on the program to watch."

F. R. "Dick" Crews, Tool Control: "How have we settled the TV program choosing question? We haven't! It's a new and separate discussion (to put it mildly) every night. My wife doesn't like sports, but she does like the jalopy races. I would like to watch all the sports —except the jalopies. Then our 15-year old son wants to see movies and more movies. In spite of all this, it all ends well; I usually give in."

Curtis Willett, Plant Protection: "We are lucky, I guess, with four people in the house and one television set, we usually agree on the programs. No one in the family is a sports enthusiast to the point of watching one every night. We prefer programs like 'I Married Joan', 'My Little Margie' and 'Life with Elizabeth'. Whenever the Stars are wining, however, I like to watch baseball."

G. H. "Pete" Stockwell, Receptionist: "My husband likes wrestling, but I don't, so we compromise and watch baseball. We don't disagree too much, however, on TV programs; maybe it's because we don't have a lot of time for watching. Besides my job here—we have several apartments that take a lot of after-work hours."

Dale J. Adkinson, Loft and Template: "The program that causes all the trouble around the house is 'Beany'. It's my favorite program—and my wife doesn't even like it! Finally, though, she has resigned herself. We get along fine with her favorite—I, too, like 'I Love Lucy'.



L. P. "Pat" Coyle, Engineering Services: "My wife is usually the first one to turn the television on, so we watch what she wants to watch. My mother-in-law is in there pitching for her favorite programs, however. And I don't give up wrestling and 'Space Patrol' too gracefully. The two kids are gone most of the time and don't interfere. Other than the programs I mentioned, I don't voice an opinion—that's my wife's and mother-in-law's problem."

Florence Graveline, Electro-Mechanical Laboratories: "My mother watches all the daytime programs, and my brother and I have our choice of programs at night. We both like to see plays and some of the mystery programs. "I Love Lucy" is a favorite of both, but watching baseball is a hit and miss with us. We have one disagreement that comes up weekly, however; I prefer 'Bachelor's Haven' to 'Mr. Peepers', but my brother doesn't."

Harry Loupas, Standard Tooling and Development: "Our little nine year old daughter usually rules on the programs that are turned on. Lucky for her, our little boy is just six and doesn't voice too many opinions of his own. My wife and I are usually doing some work around the house or in the yard and garden, so we really aren't avid TV fans. My wife likes Groucho Marx' program."

RETIREMENT PLAN BIRTHDAY

SENIOR NORCRAFTERS MAKE USE OF BENEFITS

By Aireporter

August 1, just past, marked the first anniversary of the Northrop Retirement Plan and Supplemental Personal Retirement Program.

Although it is but one year old at Northrop, the Company retirement benefits have already attracted half-a-hundred senior Norcrafters over sixty-five to a growing retirement list.

On the anniversary date the News caught a picture of a retirement typical of many, when Eli Webb, janitor in Department 5162, called it a day.

Like the friends of other oldtimers who have called it a day and left to reap their well-earned leisure, Eli's coworkers and buddies, in good Northrop style, got together to bid him bon voyage.

There was a cake for the occasion, and some presents to show Eli he was well-remembered; and the sincere good wishes of all assembled there.

(Ed. note—like Sam Coggin, Sheet Metal, whose pals remembered him on his leaving day . . . and Fred Mead, in Plant Two . . . or Wilford Jones, in Transportation . . . and many, many others).

And when Eli got home he could look forward, in his leisure, to receiving some of the other benefits that were coming to him, including, first and foremost, the monthly retirement check.

Eli and the other senior Norcrafters found that special privileges were theirs in the NRC Clubhouse as life members of the NRC.

His Certificate of Service, calling out the projects he had worked on at Northrop, would recall to him his days with his fellow Norcrafters; and his lifetime subscription to the Northrop News would always keep him in touch with activities at Northrop Field. He has the knowledge that somehow he will always be a part of Northrop.

As the Retirement Plan enters its second year of being, more veterans will be taking advantage of its benefits.

The plan provides, at no cost to the Norcrafter, retirement income for life, beginning at the age of sixty-five, with a minimum monthly payment of $25 for personnel with at least ten years' service, plus Social Security.

The Supplemental Retirement Program is gaining membership steadily, reports indicate, as Norcrafters with at least one year's service use the payroll deduction method to purchase paid-up annuity policies maturing at the normal retirement age of sixty-five.

The Supplemental program has been rated by several insurance experts as one of the best in the country in dollar value.

In order to further acquaint Norcrafters with the terms of the annuity plan, and to give general advice on insurance particulars, Clay Kelley, insurance consultant with the firm handling all Company insurance, has been assigned to part-time duty in the Northrop Personnel department.

Kelley is available on extension 2586 three days a week—Wednesday, Thursday, and Friday—for advice on personal insurance or annuity matters.

Insurance Norcrafter Jack Benjamin—see photo below—is also on station 2586 as pension counselor.

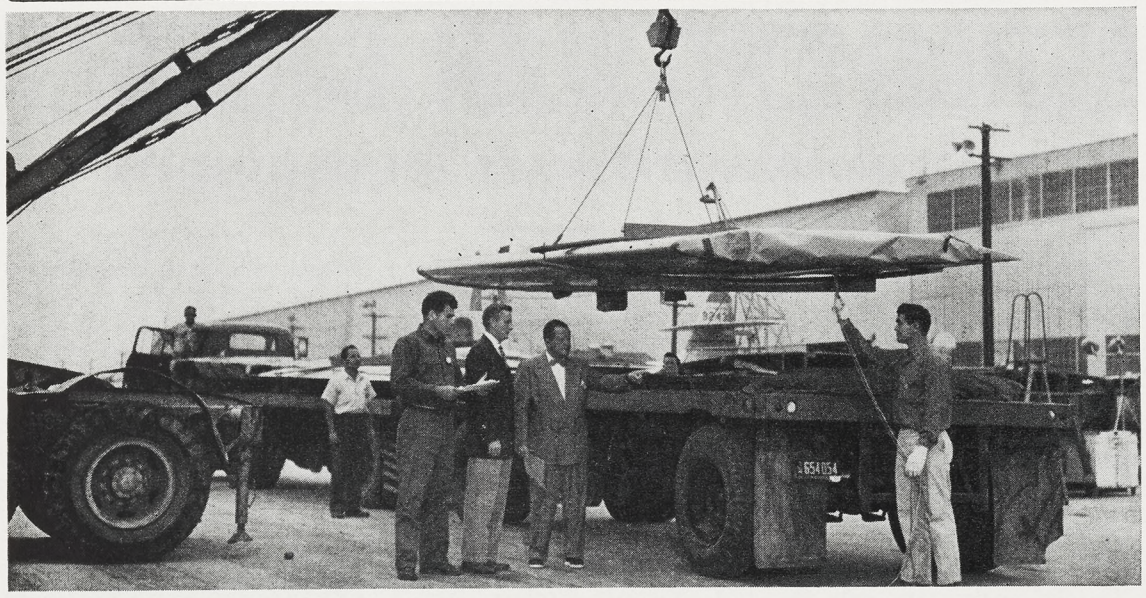
Latest list of retired personnel follows:

E. A. Alfredson—Janitors
J. J. Alleman—Process Paint & Upholstery
Glen Aron—Engineering Labs
Lewis Balogh—Machine Shop
G. M. Blake—Warehouse & Off-Site Manufacturing
O. L. Brown—Sheet Metal Fabrication
L. M. Browne — Engineering Drawing Files
Roy Brunk—Mechanical
E. M. Bubbs—Hydraulics and Plumbing
R. K. Burnett—Janitors
E. W. Church—Janitors
J. S. Coggin—Sheet Metal Fabrication
A. B. Cowell — Ontario Plant Engineering
J. L. Cribbs—Production Stores
E. T. Eileman—Missile Sub-Assembly
G. T. Elmgren—Timekeeping
V. B. Haig—Tool Cribs
C. E. Haws—Northrop Aeronautical Institute
Nathaniel Henderson—Cafeteria
Roy Hendricks—Quality Control
N. L. Hulsey—Plumbing
Hal L. Jacobs—Tool Cribs
T. H. Kennedy—Electrical
J. E. LaBee—Janitors
C. T. LeMoine—Construction
E. F. Light—Assembly
L. D. McKibben—Bench Router
E. F. Mead—Tool Control
P. E. Mendenhall—Test Mechanics and Equipment
B. M. Metra—Janitors
C. E. Norris — Engineering Drawing Files
J. W. Peach—Spotweld
William Phelps — Fire Department
Sherman Reames — Welding Shop
W. E. Reed, sr.—Construction
O. F. Reutepohler—Production Mock-up
J. H. Scales—Northrop Aeronautical Institute

CLAY KELLEY, underwriter representative, is assigned to Northrop three days a week as general pension consultant to senior Norcrafters.

E. S. Todd—Fabrication Control
W. M. Traver—Sheet Metal Fabrication
R. H. Wagner—Material Control
H. A. Walch—Sub-Assembly
F. R. Waterman—Missile Sub-Assembly
Eli Webb—Janitors
H. A. Weed—Personnel Activities
M. L. Wells—F-89 Outer Wing Assembly
H. J. West—Cafeteria
W. F. Willyard, sr.—Janitors
W. W. Wilson—Machine Shop
C. H. Wolf—Machine Shop
Henry Youngsma—Plastic Shop

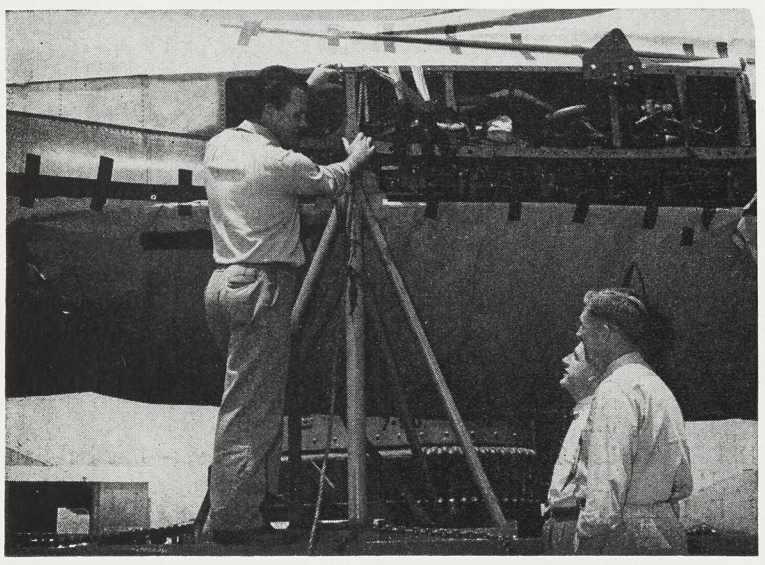
JACK BENJAMIN, Retirement Insurance counselor (right), listens to senior Norcrafter Oliver L. Brown's plans for a "good, long fishing trip" as first order of retirement. Jack is Company Retirement question and answer man. His and Clay Kelley's (see photo) telephone extension is 2586.



START OF HAUL to Ontario for Scorpion wing is outside new Assembly building, when production and Transportation Norcrafters carefully load special trailer. From Left: H. J. Welsh, driver; George Flowers, Assembly; M. K. Wing, Transportation; J. N. McNamara, supervisor, Transportation; Traffic Manager Bill Zuetell; R. K. Ramsey, far side, and R. L. Wade, guiding wing, both from Assembly. Cautious handling of part has top priority.

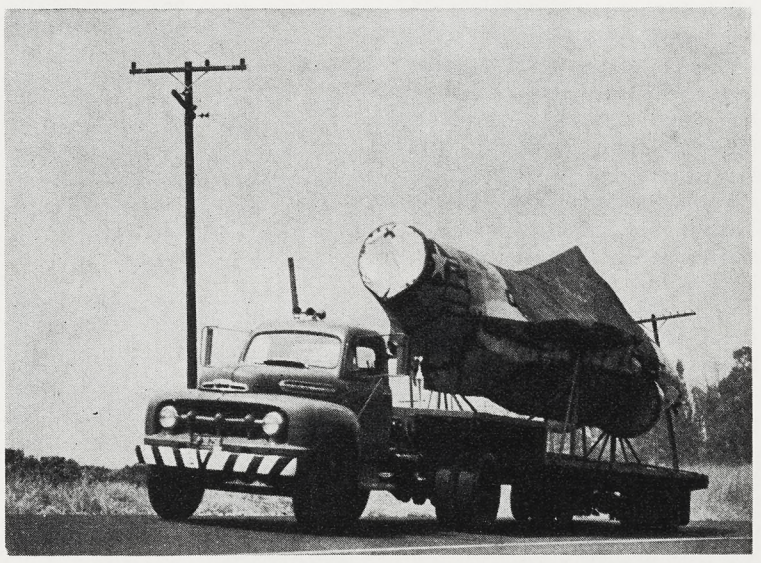
CHECKING LOAD-OUT of fuselage-burdened truck, preparatory to its moving out for Ontario, with Gordon Huffman driving, L. E. Hoen, Maintenance foreman on operation, looks over papers with help of C. H. Irwin, crane operator who has loaded it aboard, and George Newell, Maintenance supervisor. The truck is then ready to roll.

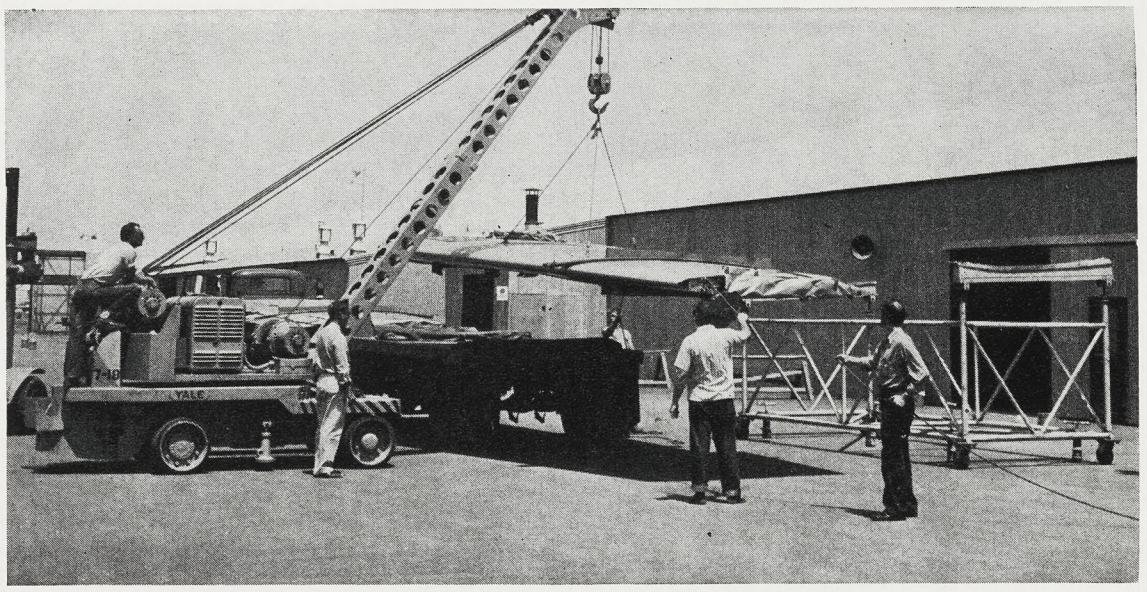
TRANSPORTATION STORY



FIXTURES holding plane sections firmly on trailer beds, such as one shown here with R. F. Lyle preparing to loosen its attach point—L. R. Wilson and C. L. Bruce looking on, left to right—were built at Northrop by Maintenance from Industrial Engineering design done by Keith Kummerfield.

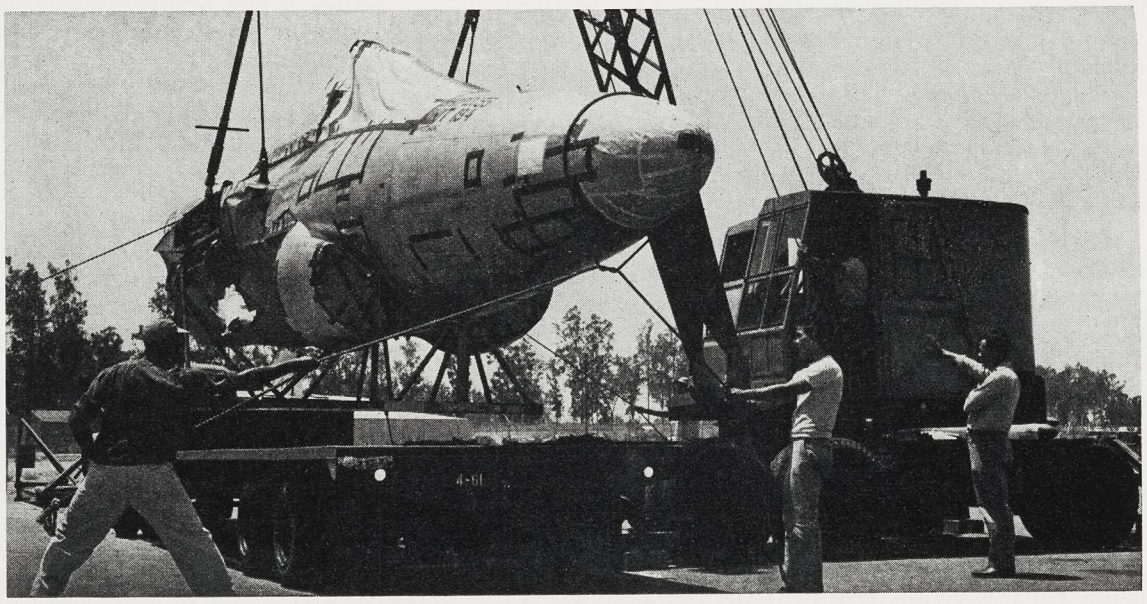
HALFWAY to Ontario, the big, specially built Fruehauf trailer—built for Northrop by local Fruehauf between Monday and Saturday of a single week—moves carefully along toward destination with its precious cargo. Aside from Welsh and Huffman shown in photos above, third skillful driver usually on this responsible job is A. F. Johnson, not shown in photos.





HOISTING WINGS carefully from trailer to waiting jig, are, from left: L. E. Coffman, crane operator; C. L. Bruce, standing sideways; R. H. Chipman, head and shoulders; J. F. Wakefield, first with rope; and G. E. Weber, anchor man.

SECURITY of operation is assured by Transportation's coordination of plans with Plant Security and Protection. Marsh Rampe, guard driving Northrop vehicle, checks with driver Huffman on details concerning route followed. Rampe accompanies trailer over entire route, Hawthorne to Ontario. (For details of operation, see story on page 5.)



UNLOADING OF FUSELAGE at Ontario is skillfully done by Norcrafters F. M. Adams, holding guide line at left; Jerry Meastas; L. E. Coffman, at controls of crane; and R. F. Lyle, keeping sharp eye open at right and helping guide movements of crane operator and others. Upon completion of move truck will return to Hawthorne, ready for the next airplane move, bringing another modified Scorpion to Ontario for assembly and checkout.

MOD PROGRAM HAULING FEAT

TEAMWORK BETWEEN DEPARTMENTS

One of the modification program's hitherto unsung operations has been the smooth and efficient hauling of airplanes to and from Ontario by the Norcrafters of the Transportation department.

Although the hauling itself has been done by Transportation, that department's supervisors are the first to point out that the operation is really a cooperative venture, with close coordination among Transportation, Assembly Stores, production departments, Plant Protection, and Ontario.

Result of the cooperation has been an efficient operation which has beat by considerable sums the bids offered by outside trucking firms for performance of the work.

First airplanes were dismantled at Ontario and trucked to Hawthorne for the modification program. As Departments 5589 and 5519 at Hawthorne began filling with modified Scorpions from the assembly line, the following modified ships were scheduled for shipment to Ontario in parts. There Norcrafters assemble and check them out simultaneously with those being prepared at Hawthorne—a vast boost to the mod program.

When the decision was made to truck airplanes to Ontario, J. N. McNamara, supervisor of Transportation, recalls, it was necessary to justify the expenditure of several thousand dollars for the purchase of special equipment. The savings made since then, he proudly points out, have already paid for the purchased equipment.

"What's more," he adds, "the equipment now paid for is being used to good advantage in moving raw material from Lynwood to Maple Street, for instance, and in transporting special weapons to Mines Field."

The department has consistently met schedules in the hauling of Scorpions and parts, beginning with the delivery of the special trailers needed.

The latter move itself is worthy of mention, McNamara says, with a compliment to Fruehauf, famed makers of truck-trailers. To meet the delivery date, "Mac" reported, Fruehauf built a trailer between Monday and Saturday!

"A couple of us visited Fruehauf on Monday and saw the stack of metal that would become a trailer—just pieces then. On Saturday we picked up the trailer!"

Special fixtures hold Scorpion components on trailers. These were built by Maintenance to designs developed in the Industrial Engineering division.

Major components—the fuselage, wings, and empennage—are loaded outside the assembly building at Plant One, with considerable care given to the loading procedure. Smaller components are loaded from Plant Three. Norcrafters from Inspection departments are on hand to check out the loads.

The caution has paid off:—since beginning the operation in March there has been only one instance of damage to parts. And that, McNamara wryly states, occurred at the end of the run!

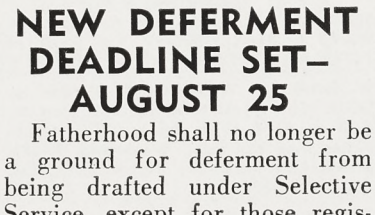
Routes are carefully selected to take the least-traveled possible roads, avoiding as much as possible the congested city areas.

Special permits are required for the movement of the large parts—these from the state, the counties involved, and several cities through which the trucks must pass.

"Skillful driving is a very necessary part of the operation," Traffic Manager Bill Zuetell remarked, "for when the trailer is loaded with the empennage, an extra-width load results."

"The Air Force deserves a hand," Bill added, "Its personnel helped establish the procedure after quickly realizing its apparent advantages. The result was the absorption by the Transportation department of a highly-specialized function without disturbing the department's regular activities."

SCORPION FUSELAGE is being cradled on trailer outside new Assembly building for its trip to Ontario, where it will be re-assembled and checked out. Norcrafters in photo: C. H. Irvin, Maintenance; Damaso Del Rosario, Assembly; R. N. Loyd, Inspection; P. T. Jones and N. C. Stebbins, jr., Assembly; Gordon Huffman, Transportation; and behind fuselage, R. A. Ciavesilla, Assembly. (Other photos are on page 4). Transportation of airplanes is part of mod program.



Double Advent

Walter and Florence Sadesky, Plastic Shop, are plenty excited over the birth of twin sons Paul and Phillip, born July 2, 1953, at Centinela Hospital. Little Paul tipped the beam at 4 pounds, 8 ounces, exactly one pound more than little Phillip. Two big brothers, Victor, 6, and Raymond, 4, are just as excited as Mom and Dad.

Vanderschans Get Girl

Paul A. and Jean Vanderschans, Project Engineering, welcomed brand new baby daughter Judith Louise to the family circle on July 16, 1953, at 1:49 a.m. Little Judith arrived via Torrance Memorial Hospital, weighing a husky 8 pounds, 4 ounces. She joins two stalwart brothers, Paul jr. (Van), 2½, and Tommy, 1½.

NEW DEFERMENT DEADLINE SET—AUGUST 25

Fatherhood shall no longer be a ground for deferment from being drafted under Selective Service, except for those registrants under the proper classification — Class III-A — prior to August 25, 1953.

Amendment of Selective Service regulations to that end was brought about by a recent Presidential Executive Order, the purpose of which is to eliminate certain dual-deferments.

Norcrafters interested in how the new ruling may affect them are invited to contact Don Colvin, Selective Service counselor in Personnel, extension 642.

Department 5620 Named Housekeeping Champion

The Good Housekeeping champion for July is Department 5620, Missile Sub-Assembly and Major Structure, Plant Two! The announcement was made last week by Factory Manager C. B. Spencer.

The winning department in the Factory division's current competition was chosen in a close finish over three other sectional champions—Sheet Metal Fabrication (5503); Electrical and Instruments (5507); and Power Plant Installation (5510).

By taking the July honors Department 5620 will have the opportunity to display the poster-type award throughout its area during the month of August, and will be the defending champion when August ratings are made. (The award is made monthly on the basis of continuing surveys.)

Presentation of the award was made last Thursday to supervision in the department by Gary Hard, and in making the award he commended the personnel of the winning department for their cooperation and determination.

"The winning of the award by Department 5620," he stated, "is a high compliment to the individual Norcrafters of that department. It's obvious that an achievement of this type is the result of the combined efforts of everyone—no one individual or even small group of individuals could do enough to rate the top honor."

The final award committee, under chairmanship of Gary Hard, included Assistant Superintendents Fred Griffin, Woody Jones, Ollie Omley, and F. G. "Flash" Gordon. They had been selected by their section award committees to serve on the final committee.

Department 5620 is under the supervision of G. T. Blair, general foreman, days, and Les Kneefe, foreman, nights. It comes under the jurisdiction of Special Weapons Manufacturing, Cliff Carter, assistant superintendent. D. W. "Red" Phillips is general superintendent of Special Weapons Manufacturing Operations.

The line-up of departments competing for the monthly award shows the following divisions: Section One—Departments 5221, 5406, 5411, 5437, 5445, 5501, 5503, and 5508.

In Section Two: Departments 5504, 5507, 5517, 5585, 5586, 5587, and 5588. In Section Three: 5506, 5510, 5515, 5520, 5589, and 5621. And Section Four: 5502, 5509, 5530, 5538, 5620, and 5819.

Cowboys, Bronc Busters Headline Sheriff's Rodeo

The Old West should seem young again when the Sheriff's Annual Rodeo comes to the Los Angeles Memorial Coliseum on Sunday, August 23, at 2:30 p.m.

For the thirtieth year, the Los Angeles County Sheriff's Relief Association, Sheriff Eugene W. Biscailuz, president, will provide unusual entertainment for its many friends.

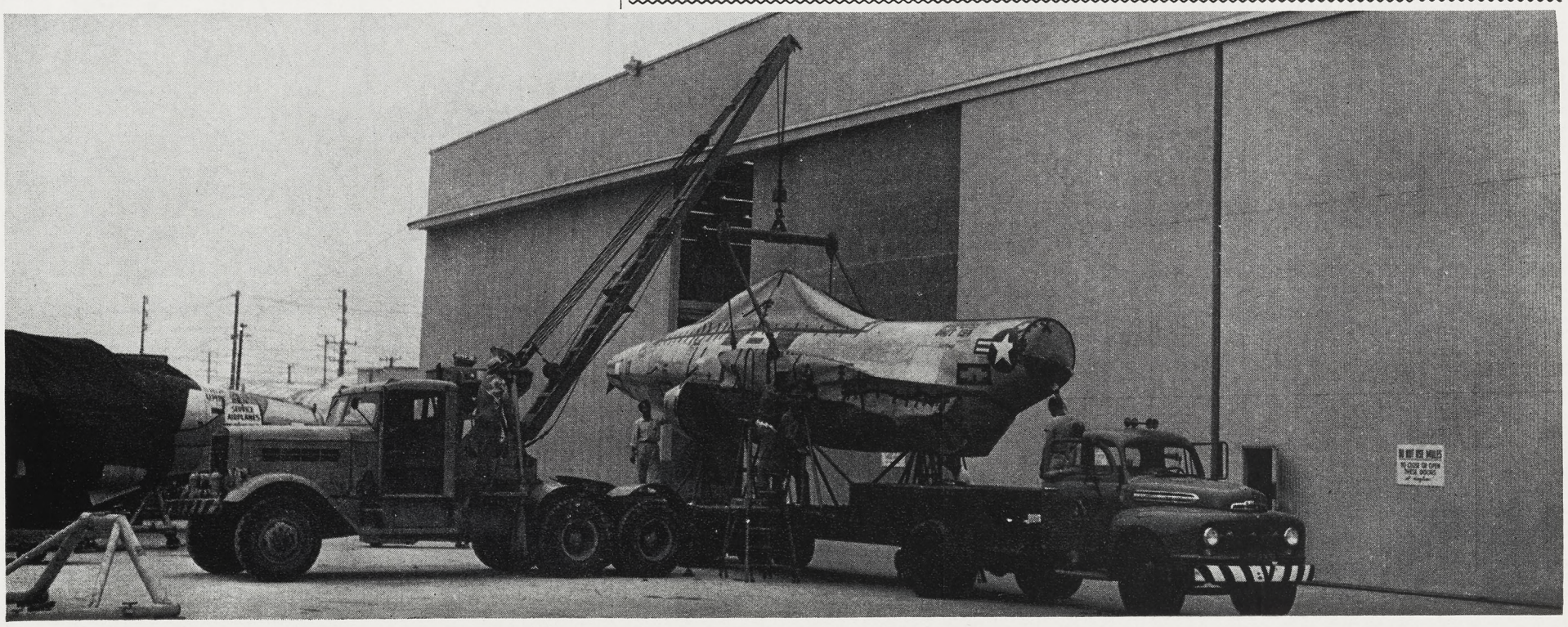
Many Norcrafters may remember that Sheriff Gene was on hand for Northrop's first ground-breaking in 1939, and has since returned on many occasions to renew acquaintances up and down the Field.

In Sheriff Biscailuz' special invitational message to Norcrafters this year, the famed, hard-riding westerner reports that some 90,000 visitors last year enjoyed the Sheriff Rodeo's colorful parade, exciting contests and gala exhibitions of expert horsemanship.

This year, as last, the NRC Riding Club has been invited to participate in the grand entry of the Sheriff's Rodeo, and 12 members will ride, carrying the NRC banner.

Funds raised from the event will go to pay sick and disability benefits to members of the Sheriff's Relief Association.

General admission tickets, now available at Personnel Activities (call station 637), are priced at $1.25. Children's are 50 cents. Reserved seats, for which general admission tickets may be exchanged, are $2.50 and $3.75.



"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
WESTERN & ARLINGTON, Los Angeles. KENNETH D. JOHNSON (5353-70, Ext. 1628), RE 4-3669. (12-1-1)

(Zone 6)
COMPTON BLVD. & WESTERN AVE. (Down Western Ave. to El Segundo Blvd. to Plant or down Compton Blvd. to Crenshaw and to Plant), Gardena. W. B. MORTON (5585-77, Ext. 1381), ME 4-1097. (12-1-6)

(Zone 11)
EUCALYPTUS, MAIN STREET or any place on El Segundo Blvd., El Segundo. ERNA MAE SNIDER (5508-23, Ext. 2230, 1453, 2766), EL S. 1228-W). (12-1-11)

(Zone 14)
WESTERN & SANTA MONICA BLVD., Hollywood. W. J. FORBELL (5234-17, Ext. 1981). HO. 5-9121. 12-1 & 3-14

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 14)
WESTERN & SANTA MONICA BLVD., Hollywood. W. J. FORBELL (5234-17, Ext. 1981), HO. 5-9121. (12-3-4)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 7)
PACIFIC COAST HWY. & WILMINGTON BLVD., Wilmington. JANET McFARLAND (9360-39, Ext. 2191), TE 4-3308. (13-1-7)

(Zone 11)
E. MAPLE AVE. & SEPULVEDA BLVD. (Car pool), El Segundo. GEORGE L. RUBIN (3230-48, Ext. 1230). (13-1-11)

(Zone 13)
NATIONAL & SEPULVEDA OR NATIONAL & CENTINELA. (Car pool preferred). West Los Angeles. H. E. KARISH (3460-161, Ext. 1781), EX 7-0134. (13-1-13)

VENICE BLVD. & SEPULVEDA (Prefer car pool), Los Angeles. MARTIN W. GLASSMAN (3250-66, Ext. 1781-3). (13-1-13)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 10)
MANHATTAN AVE. & PIER AVE. (Can come either way — Redondo Beach Blvd. or Manhattan Beach Blvd), Hermosa Beach. RALPH GAUT (3272-824, Ext. 1274), FR 2-9880. (13-3-10)

(Zone 14)
BEVERLY & FAIRFAX (Would prefer car pool), Los Angeles. GERSTEN SHACKNE (3270-88, Ext. 409), WY 3882. (13-3-14)

CRENSHAW & RODEO RD. (Arrive at Plant III in time to catch the 7:03 bus to Plant I), Los Angeles. KARROLL SHURTZ (3120-21, Ext. 1226-1689), AX 2-3692. (13-3-14)

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 4)
ROSEMEAD & BEVERLY (Rosemead to Telegraph Rd. to Eastern to Firestone to Hoover to Century to Crenshaw to Broadway to Gate 5A. I will change my route for more riders), Pico. L. R. SLININGER (5587-651, Ext. 1974). (16-1-4)

3:45 p.m. — 12:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 4)
ROSEMEAD & BEVERLY (Rosemead to Telegraph Rd. to Eastern to Firestone to Hoover to Century to Crenshaw to Broadway to Gate 5A. I will change my route for more riders), Pico. L. R. SLININGER (5587-651, Ext. 1974). (16-3-4)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 4)
GLENDORA BLVD. & MAPLE GROVE ST. (Want someone from W. Covina or Baldwin Park or Puente to share cars and rides (I drive one week—he next—Alternate), Puente. G. TED COSTA (5503-238, Ext. 2681). (18-1-4)

(Zone 5)
ROSECRANS & STUDEBAKER RD. (Women only), Norwalk. DOIRE C. WILLIAMSON (5507-256, Ext. 526). (18-1-5)

RIDES OFFERED

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 5)
LAKEWOOD & ROSECRANS. (Car pool). Arcadia. R. W. CAVENEY (5338-213, Ext. 2145). DO. 7-4856. 18-1-5

NESTOR & PALMER or NESTOR & ROSECRANS. (Route: Nestor & Palmer to Rosecrans to Crenshaw to Broadway to Gate 5. Could come via Compton). Compton. A. T. VICTORIAN (5587-805 Ext. 1947). NEwmark 2-9923. 18-1-5

(Zone 14)
CRENSHAW or LA BREA & ADAMS, Los Angeles. GENE BRAKKE (5501-449, Ext. 2200), RE 4-7352). (18-1-14)

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
VERMONT & 3RD ST. or WILSHIRE & VERMONT, Los Angeles. GENEVA FIELDS (5585-41, Ext. 1381). (2-1-1)

LOS FELIZ BLVD. & SAN FERNANDO ROAD, Los Angeles. JOHN CIMBALUK (5503-324, Ext. 2681). (2-1-1)

(Zone 2)
FIGUEROA & GAGE or HOOVER & GAGE, Los Angeles. JOSEPH H. WILKINS (7210-45, Ext. 2780), PL 3-7529. (2-1-2)

(Zone 3)
BROADWAY & 82ND, Los Angeles. JIM STOVER (5508-133, Ext. 2327), TW 1782. (2-1-3)

(Zone 9)
PRAIRIE & 176TH STREET, Torrance. DOROTHY RAMSEY (5620-29, Ext. 2449). (2-1-9)

(Zone 10)
HAWTHORNE BLVD. & 141ST, Hawthorne. BETTY JUNE SORENSEN (5508-303, Ext. 2230). (2-1-10)

HIGHLAND & 9TH, Manhattan Beach. HARPER ROISMAN (5353-94, Ext. 2230), FR 4-1680. (2-1-10)

(Zone 11)
HAWTHORNE BLVD. & 118TH, Hawthorne. MINNIE HOLLAND (5507-83, Ext. 526). 2-1-11

(Zone 12)
AIRPORT BLVD. & ARBOR VITAE, 1st street south of Manchester on Airport Blvd. (Do not need a ride in evening—only in morning), Los Angeles. CHARLES PJERROU (5223-324, Ext. 1950), OR 1-4927. (2-1-12)

PRAIRIE & IMPERIAL BLVD., Inglewood. EDWIN C. MODIE (5534-44, Ext. 2244), OR 7-7860. (2-1-12)

(Zone 13)
SHERMAN WAY & WOODLEY, Van Nuys. BILL M. WATERS (7319-22, Ext. 2227), ST 5-5192. (2-1-13)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 4)
COMPTON AVENUE & IMPERIAL, Los Angeles. TOMASA MONTOYA (5508-193, Ext. 520), LO 6-0473. (2-3-4)

(Zone 5)
ROSECRANS & AVALON BLVD. or COMPTON BLVD. & AVALON, Gardena. WILMA A. SPENCER (5504-38, Ext. 7424). (2-3-5)

(Zone 11)
HAWTHORNE & BROADWAY, Hawthorne. VIRGINIA L. WILKINSON (4250-66, Ext. 588). (2-3-11)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 1)
CRENSHAW & CENTURY, Inglewood. TED M. BELITZ (9350-5, Ext. 2298), PL 5-6655. (3-1-1)

(Zone 5)
WILMINGTON & COMPTON BLVD. (Ride needed immediately. Call after 5 p.m., Compton. DOROTHY L. BROWN (9330-48, Ext. 1471), NE 2-2632. (3-1-5)

(Zone 7)
VAN NESS & 114TH, Gardena. DOROTHY ELLIS (9350-60, Ext. 2009). (3-1-7)

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 7)
PACIFIC COAST HWY. & WILMINGTON BLVD., Wilmington. JANET McFARLAND (9360-39, Ext. 2191), TE 4-3308. (3-1-7)

(Zone 8)
CRENSHAW & 156TH (Have car, will alternate). Gardena. MARGARET H. CASSIDY (5114-42 Ext. 1306) ME. 4-7221. 3-1-8

(Zone 10)
PIER & HERMOSA AVE., Hermosa Beach. KATHLEEN HAMMAN (7520-17, Ext. 2623), FR 4-9646. (3-1-10)

INGLEWOOD AVE. & 140TH STREET, Hawthorne. JOYCE PRENGER (9310-107, Ext. 2280). OS. 6-6426. 3-1-10

(Zone 11)
E. MAPLE AVE. & SEPULVEDA BLVD. (Car pool), El Segundo. GEORGE L. RUBIN (3230-48, Ext. 1230). (3-1-11)

(Zone 12)
INGLEWOOD AVE. & REGENT STREET. (Need 1-way ride going home at 4:15). Inglewood. VICKI STRAHAN (5910-833, Ext. 1655 or 1656). (3-1-12)

(Zone 13)
MANCHESTER BLVD. & GREVILLEA AVE., Inglewood. EVANGELINE BOBITCH (8400-39, Ext. 1406, 7 or 8). (3-1-13)

VENICE BLVD. & SEPULVEDA (Prefer car pool), Los Angeles. MARTIN W. GLASSMAN (3250-66, Ext. 1781-3). (3-1-13)

NATIONAL & SEPULVEDA OR NATIONAL & CENTINELA. (Car pool preferred). West Los Angeles. H. E. KARISH (3460-161, Ext. 1781), EX 7-0134. (3-1-13)

(Zone 14)
WEST BLVD. BETWEEN 71ST ST. & FLORENCE AVE., Los Angeles. JUDIT ERIKSSON (5127-38 , Ext 1621), PL 1-3995. (3-1-14)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 2)
NORMANDIE & CENTURY or VERMONT & CENTURY, Los Angeles. WANDA MOORE (1441-92, Ext. 2393), PL 5-2172. (3-3-2)

(Zone 4)
NORMANDIE & IMPERIAL, Los Angeles. OLIVE BALL (8620-67, Ext. 2011), UL 5-0630. (3-3-4)

(Zone 10)
CATALINA & "C" AVENUE or 101 HIGHWAY & "C" AVENUE, Redondo Beach. MILTON SKILLERN (6110-64, Ext. 1458). (3-3-10)

(Zone 13)
SLAUSON & LA BREA, Los Angeles. EDWARD L. BRAY (3530-99, Ext. 1872 or 1874), AX 2-3716. (3-3-13)

WILSHIRE & WESTWOOD BLVDS. or SEPULVEDA & MONTANA. (Will start on 7:30 to 5:15 shift soon. Will accept either time for ride), Westwood. RALPH STANNARD (8330-57, Tieline 2011, Ext. 45), AR 9-0800. (3-3-13)

(Zone 14)
SUNSET & SILVERLAKE (4 blks. W. of Alvarado), Los Angeles. LEONARD T. LICKERMAN (8620-135, Ext. 2011-29), OL 2826. (3-3-14)

BEVERLY & FAIRFAX (Would prefer car pool), Los Angeles. GERSTEN SHACKNE (3270-88, Ext. 409), WY 3882. (3-3-14)

8:00 a.m. — 4:45 p.m.
(Plants 1 and 2)

(Zone 14)
OLYMPIC & WESTMORELAND, Los Angeles. ANDREY ROSE (8000-11, Ext. 1880 or 1260). (5-1-14)

3:45 p.m. — 12:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 4)
S. PAINTER & MYSTIC or GREENING AVE. & ANOLA ST. in Lake Marie Ranchos, Whittier. RUSSELL GRANATA (5336-214, Ext. 2797), OX 6-2265. (6-3-4)

(Zone 9)
INGLEWOOD AVE. & 185TH or INGLEWOOD AVE. & 182ND, Redondo Beach. M. M. CHENOWITH (6335-212, Ext. 2522-2523). (6-3-9)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)
SANTA BARBARA & BUDLONG, Los Angeles. LUCY LEWANDOWSKI (5584-473, Ext. 1382). (8-1-1)

CRENSHAW & IMPERIAL, Inglewood. J. W. DE CONTRERAS (5534-229, Ext. 2244), OS 6-7550. (8-1-1)

(Zone 5)
LAKEWOOD & ROSECRANS. (Car pool). Arcadia. R. W. CAVENEY (5338-213, Ext. 2145). DO 7-4856. 8-1-5

(Zone 10)
HERMOSA AVE. & 1ST ST. (My former driver has changed shifts. I have been coming to work on the bus, and only riding home in a car, and could continue that way or ride both ways, at the driver's discretion), Hermosa Beach. MILDRED M. TEAGUE (5503-441, Ext. 2681), FR 4-5480. (8-1-10)

New Blood Relatives for Benny Gerstle, Florida

Benny Gerstle, timekeeper at AFMTC, Florida, is known for his ability to call almost everyone there by first name.

Norcrafters returning from the weekend on Monday morning, July 6, missed Benny as they checked through the clocks. Word was quickly out that he was in Brevard Hospital, Melbourne, there having a tussle with the medics over a serious stomach ailment.

A call came from Brevard which was to bind eleven Norcrafters into a new relationship. Charlotte Moline, Northrop nurse, took the call. Benny needed transfusions of type "A" Negative blood urgently. That type is rare, and was unavailable locally. Nearest supply was at Orlando, 75 miles away. The rest of the story seems almost according to script.

The call for help went out over the loud-speaker system, cutting sharply and soberly through the noise and bustle of Missile Test activities: "If anyone has type "A" Negative blood and wishes . . ."

Now the twinkle is back in Benny's eye. his convalescence complete. Aside from the possibility of Benny's having to learn a few new first names, there has been only one major change. The following AFMTC Norcrafters are now Benny's blood brothers, and sisters, each per one transfusion — D. M. Hollands, Clarence Tacquard, Lynn Rogers, Milton Rogers, Boyd Thomas, and Charles Sparks, Missile Flight Service; Emil Nederostek, Missile Flight Test; Jean Arleo and Charles Whiting, Instrumentation; and Charles Holeman, Radio Control.

RIDES WANTED

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

MANHATTAN BEACH & AVIATION BLVD., Redondo Beach. M. B. BLOMKER (5507-243, Ext. 526-564). (8-1-10)

PRAIRIE & 134TH ST. (I just want to ride from work to 134th and Prairie. It would be worth $1 a week to me), Hawthorne. HELEN DUSTER (5508-604, Ext. 2230), OS 6-4939. (8-1-10)

(Zone 11)
ANZA AVE. & 120TH ST. or FREEMAN & 120TH ST., Hawthorne. E. GAILE FUSON (5508-253 Ext. 2230). OS. 6-5244. 8-1-11

(Zone 13)
FLORENCE & FREEMAN BLVD. or LA TIJERA & OSAGE AVE., Los Angeles. DOROTHY W. POE (5002-211, Ext. 622). OR 2-4774. (8-1-13)

(Zone 14)
CRENSHAW & 78TH ST. (Manchester & Crenshaw will be ok), Los Angeles. D. A. WELLS (5524-291, Ext. 2209), PL 1-8816. (8-1-14)

CRENSHAW or LA BREA & ADAMS, Los Angeles. GENE BRAKKE (5501-449, Ext. 2200), RE 4-73521). (8-1-14)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 5)
COMPTON & WILMINGTON or ROSECRANS & WILMINGTON, Compton. (Hours 8:30 a.m. to 5:15 p.m.). MARGARET A. GRAHAM (1441-86, Ext. 691), NE 2-6600. (10-1-5)

RIDES WANTED

(Zone 9)
TORRANCE BLVD. & PACIFIC COAST HIGHWAY (I would meet my rider at the most convenient place for him. Hours 7:30 to 4:30 p.m.), Redondo Beach. CAROLE HOLMES (9320-84, Ext. 2278), FR 4-1578). (10-1-9)

LYNWOOD ADS

7:00 a.m. — 3:45 p.m.

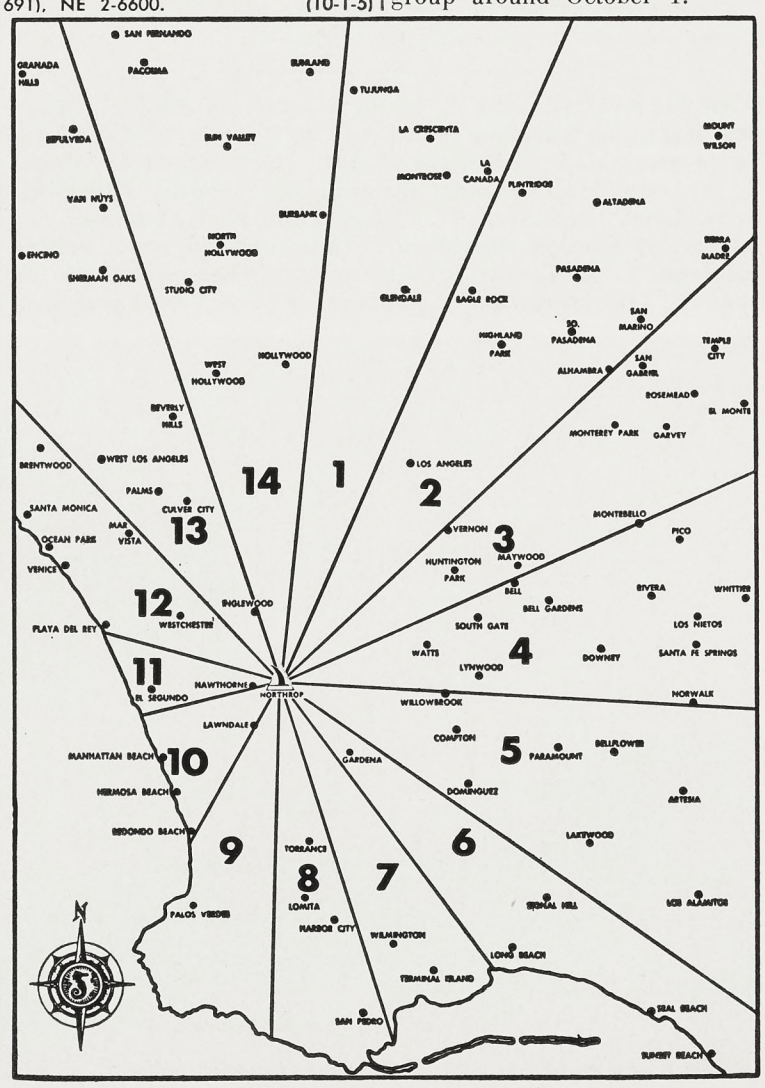
(Zone 5)
LAKEWOOD & DEL AMO or LAKEWOOD & CARSON), Lakewood. SHIRLEY PRUITT (5123-28, Ext. 238). (2-Lynwood-5)

(Zone 8)
COMPTON & CRENSHAW, Gardena. LOUIS H. BUETTNER (5123-20, Ext. 1611 (236), OS 6-9679. (2-Lynwood-8)

BALLROOM CLUB DISCONTINUES DURING SUMMER

The NRC Ballroom Dancing Class, popular since its activation last year, has been discontinued for the balance of the summer.

Norcrafters will be happy to know that Instructor Bill Williams will be back with the group around October 1.



SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below, call or contact Personnel Activities and Services, Plant One, 637; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BALLROOM INSTRUCTION
Discontinued for balance of summer. Watch for new starting date.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily, Conference room 1-5 11:00 a.m. lunch period. Plant III 12:15 p.m. Conference Rm. 5.

BOAT CLUB
Harold Senter, commissioner
Next meeting Monday, Aug. 31, NRC Clubhouse. Discussion on Navigation and Small Boat handling and Radio Direction Finder.

BRIDGE
Bill Close, acting commissioner
Meet first and third Tuesdays each month, 7:30 p.m., NRC Clubhouse.

CAMERA CLUB (DAYS)
Walt Darby, commissioner
Meet every other Friday, NRC Clubhouse annex. Next meeting Friday, Aug. 21, 8:00 p.m.

CAMERA CLUB (NIGHTS)
Adam Slusarz, acting commissioner
Meet every other Saturday, 7:30 p.m., NRC Clubhouse. Next meeting, Saturday, Aug. 15.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

FISHING (DAYS)
Hal Hathorne, commissioner
Next cruise of the month Saturday, Sept. 12, the "Ino." Make reservations at PA&S.

FISHING (NIGHTS)
Chuck Bija, commissioner
Next cruise of the month, Sunday, Aug. 16, the "Terleen" and "Uncle Toby". Make reservations at PA&S.

FLYING CLUB
Joe Carver, representative
Being reorganized, memberships available. Call PA&S for further information.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Room. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (DAYS)
Jim Milne, commissioner
Twilight league play at Alondra Park and Western Avenue Golf Course.

GOLF CLUB (NIGHTS)
Bill Levens, commissioner
Night Shift Golf League plays every Thursday Morning, 8:30 a.m., at the Fox Hills Country Club.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m., 1016 No. Market St., Inglewood. Sunday, 9:00 a.m. to 12:00 noon.

PHILATELIC CLUB
Gene Barton, commissioner
Philatelic and Numismatic meets 2nd and 5th Mondays each month, 7:00 p.m., NRC Clubhouse.

RIDING CLUB
Don Danner, commissioner
Next ride, Sunday, Aug. 16, 7:30 a.m., Circle Bar Ranch, Breakfast Ride. Reservations must be in by Aug. 13.

SEA SCOUTS
Jimmy Scott, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next shoot Aug. 22.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Aug. 28, NRC Clubhouse Board Room.

SOFTBALL
Paul Wheeler, commissioner
Day and night shift interdepartmental teams play daily at Rosecrans Playgrounds, 149th and Vermont. Night shift, 10:30 a.m.; day shift, 6:00 p.m.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse.

SURF FISHING
Ted Griswold, acting commissioner
Next Field meeting, Sat. Aug. 22, 3:00 p.m., just south of Hollywood Riviera Beach Club at Redondo. Bring sandwiches and refreshments. Club meeting Thurs. Aug. 27, 7:30 p.m., NRC Clubhouse. Fishing movies and prizes.

SWIMMING
Betty Jo Razor, acting commissioner
Meet Wednesday and Friday from 4:30 to 6:30 p.m., at Leuzinger High Pool. No charge. Wednesday—adults only. Friday—family day.

TOASTMASTERS (DAYS)
Jack Akin, representative
Meet every Thursday evening, 6:30 p.m., Western Club Cafe, 15516 So. Western, Gardena.

TOASTMASTERS (NIGHTS)
All interested Norcrafters submit name, department, and clock number to PA&S.

TRAILER
All interested Norcrafters submit name, department, and clock number to PA&S.

TROPICAL FISH CLUB
Les Squires, acting commissioner
Meet last Wednesday each month NRC Clubhouse. Next meeting, Wednesday, August 26.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 637. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BOWLING
Ruth Wallace, acting commissioner
Leagues now in progress, Thursday, 6:30 p.m., Hawthorne Bowl.

DINNER CLUB
Cathy Waffel, commissioner
Interested ladies contact PA&S.

GOLF
Nora Donnici, acting commissioner
Tuesday evening only, 7:00 p.m., at La Tijera Driving Range, 7301 Osage Ave. Lessons $1.

INTERIOR DECORATING
Donna Pratt, acting commissioner
Meet every Thurs., 7:30 p.m., NRC Clubhouse. Weaving instruction provided.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m. NRC Clubhouse. Instruction provided.

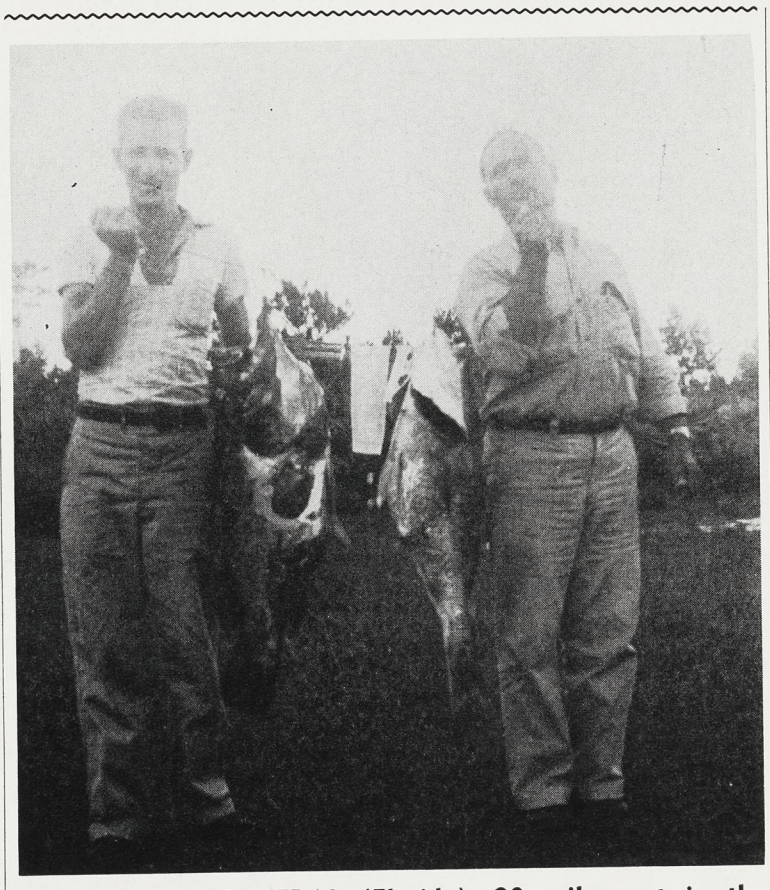
MARINERS
May Hawkins
Meet Thursday, 7:30 p.m., Scout Cabin, 134 Grevillea, Hawthorne. Open to teen-age daughters of Norcrafters.

SLIM 'N TRIM
Dorine Benkendorfer, acting commissioner
Meet every Monday, 7:30 p.m., NRC Clubhouse.

SOFTBALL
League in progress—Ladera Park, 7:00 p.m., Tuesdays.

TOASTMISTRESS
Marie L. Sauer, representative
Meet first and third Thursday, NRC Clubhouse. 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

OWLMEN OVER AIRESEARCH



OFF CAPE CANAVERAL (Florida), 30 miles out in the Atlantic, was the spot where Earl Roberts (left) and Harold Barnes, both of Maintenance, made these walloping catches. Earl's fish is a 27-pound Grouper; Harold's a 19½-pound Red Snapper. Boys used hand lines—live, black bass as bait.

TOP LINKSMEN

Six trophies recently came the way of night shift golfing Norcrafters, NRC Golf Commissioner (night) Bill Levens has reported, when Northrop linksmen beat AiResearch in a 10-week series played at the Western Avenue course.

Played by teams of two, the series ended with Norcrafters Bob Marsh (6378) and Don Searfoss (5524) on top of the stack. Runners-up were Pete Christensen (ex-Norcrafter) and Levens himself; and coming in third in the field of twelve teams was the duo of Mike Platko and Truman Lawson (both 5524).

Activities of the night shift golfers are continuing, Bill said, with regular summer tournament play. At the moment, he announced, Platko is leading Flight A, with three wins and no losses; and Searfoss is heading Flight B.

Threatening the leaders in the summer competition are C. L. Sundquist in Flight A, and Truman Lawson in Flight B.

There are five weeks to go in the summer play, with matches scheduled for Thursday mornings at 8:30 at the Fox Hills Country Club.

Although play is in progress, Levens said, new members for the organization from the night shift ranks are still welcome.

Assembly Norcrafters in Midst of Mod Hop Plans

F-89 Fuselage Sew-Up and Primary Installation (Department 5587) is busily completing plans for a big departmental dance to be known as "Mod Hop" and to be held at Westport Beach Club, Playa del Rey, on Saturday, August 22.

Dancing to the music of Cy Lucas and his orchestra will get under way at 9:00 p.m. Dress for the evening is optional. Tickets are $1.25 each and may be purchased from the following '87 night shift personnel: Al Carr, Hilda Morlock, Cologne McDaniel, Ina Bolen, Virginia Clark, and Georgia White. For tickets on days contact Norma Murray.

All Norcrafters are invited to attend.

Gardener

BERT BINGE, nine-year Norcrafter of Engineering Laboratories, was recently elected commissioner of NRC Garden Club. He has been a star member of the club since it started, and invites all gardening enthusiasts to join the club. For further information, call PA&S, on station 637.

Sport Cars In Polished Concours D'

An outstanding precedent was set on Sunday, July 19, 1953, when the serene and stately dignity of the front lawn of the Los Angeles Ambassador Hotel was disturbed by the roaring, burping and cackling exhaust notes from over one hundred foreign and sport cars of all descriptions, as they were being directed to park in neat rows on the lawn.

The purpose of all this was the closing event of the 4-cylinder Club of America's "Sport Car Motor Week"—a "Concours D' Elegance" of fine cars from all over the country. The theme of this display was to judge cars for condition, beauty, rarity, and for the tender loving care with which they had been maintained.

Of interest to Northrop is the fact that members of the NRC Sport Car Club took two first places out of a possible six—Cliff Bundy, Master Planning, in Class F (original purchase price of $5000 or over) and Don Miller, Tool Engineering, in Class A (sports cars purchased prior to 1947). The winning cars were the oldest and least expensive of any displayed in their respective classes.

At present, Cliff and Don are contemplating Nylon drapes and oriental rugs for their garages in order to provide suitable background for their respective concours D' elegance winners.

Jim Celoni Meets Folks Via KNXT-2

By Joe Cribbs
President
Northrop Recreation Club

Jimmy Celoni — "Gentleman Jim" as he is known up and down Northrop Field—and wife, Estelle, were TV'd coast to coast on July 28 over "Art Linkletter's House Party," KNXT, Channel 2. The event took place during the Celoni family annual vacation. As one of the amateur tryout vocalists to duet with singer Connie Haines, Jim was given a chance to be seen for the first time by his in-laws in New Haven, Connecticut. Estelle—Mrs. Celoni—had written in advance to her mother, whom she hadn't seen for eight years, to expect the program. Jim's prize for participating was shaving equipment. Gentleman Jim, incidentally, is NRC ping pong head man.

* * *

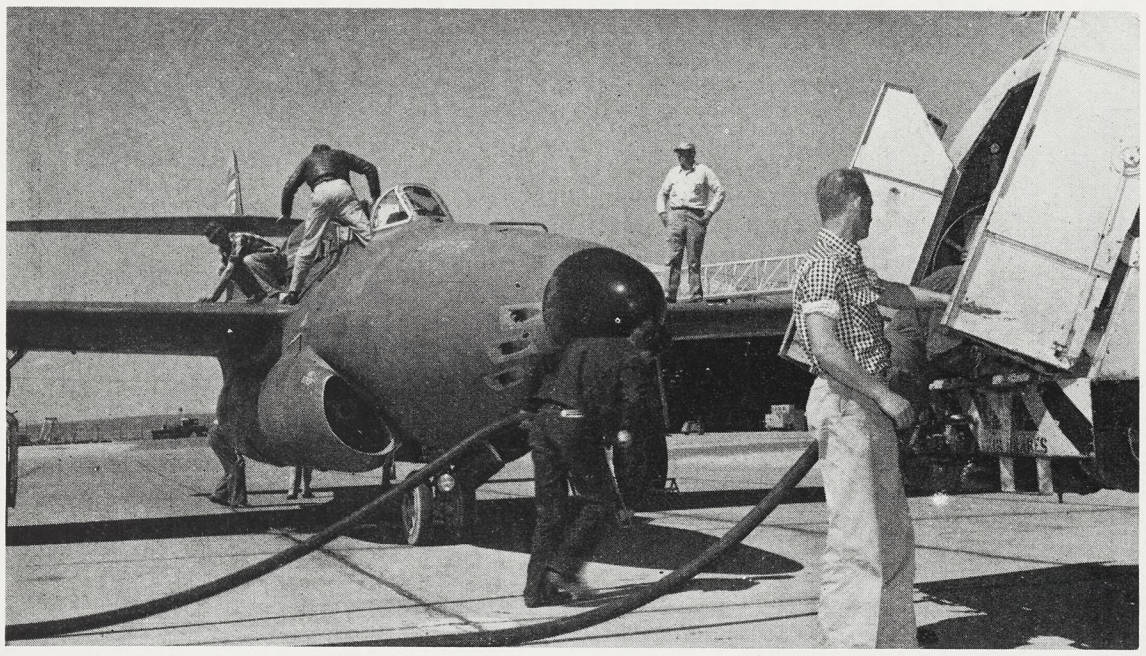
Comments on the Pomona Fair . . . Everyone loves a county fair. The Los Angeles County Fair, in spite of what some Texans might say, is the largest of them all. . . . This is the 26th edition; dates are September 18 through Oct. 4. . . . There are miles of free exhibits—theme title is Production for Democracy. There will be 41,000 individual exhibits. . . . surface parking area for 40,000 cars with free tram service. Last year the turnstiles clicked 1,085,475 times. This year's goal is a million and a quarter. There will be parades, gay fiestas, sparkling entertainment, lively contests. . . . "Ice Vogues" for the first nine days and "Fair Follies" for the remaining eight days. . . . live stock of all kinds plus rabbits, poultry and pigeons. Boys and girls will have a fair all their own in the junior division. There will be $400,000 in prizes. Hey—let's go to the Fair!

* * *

Norcrafters' interests are many, wide and varied. . . . Bert Binge, newly elected Garden Club comish, (see photo page 7), gives us a tip or two on camellias. "Sprinkle the foliage of camellias once or twice a day through August and September to prevent bud drop later on. Thin out buds now to avoid overcrowding and the result will be bigger and better formed flowers. Keep a heavy mulch on camellias, azaleas and rhododendrons through these hot summer months and check the soil to make sure it is damp but not soggy. Remember, these plants demand an acid soil in order to thrive, so check periodically. A pH of 4.5 to 5.5 may be maintained by the addition of aluminum sulphate as required. If the soil becomes alkaline the plant will gradually become defoliated and die."

THE Northrop Scene BY DAY AND NIGHT

Test Scorpion Refueling

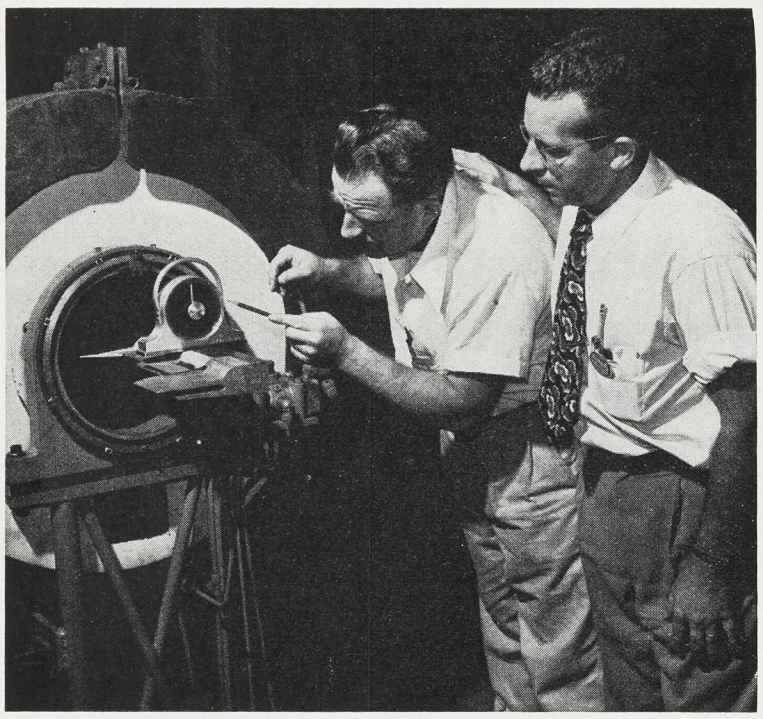


TEST SCORPION at Muroc is refueled between flights by Norcrafters and USAF personnel before taking off into blue for another phase of its test program. On airplane C. H. Phipps is refueling; Crew Chief Al Word checks cockpit; and Lofton Massey, on port wing, awaits refueling line being brought to him by Roger Guilmette (directly in front of Scorpion nose). At right Norcrafter Ray Zeller helps Airman Third Class James Ashby at rear of fuel truck. Muroc facility is flying on tests daily as long as daylight lasts . . .

Friends in Need

TYPE "A" NEGATIVE blood was hard to find when Benny Gerstle, AFMTC Finance division timekeeper, recently needed it so urgently. One of ten Norcrafter donors to come to rescue was Jean Arleo, Instrumentation, here seen visiting Benny during convalescence in Brevard Hospital, Melbourne, Florida. Call for blood, issued to Norcrafters, brought seven donors immediately. Benny used ten pints in all. See story on page six, this issue, for full details.

$$ Idea Takes Out Twist



SUGGESTION AWARD was won by Alfred Siemianowski, Sheet Metal Fabrication, for suggesting gauge to measure twist taken out of attach angles. Al is shown with night shift Assistant Foreman Barney Elliott, pointing out virtues of gauge, which is fixed to special equipment made here to take twist out of angles. The suggestion resulted in material and time saving operation, added to efficiency of department operations.

Battling Waste With Material Conservation

CONSERVATION OF PERISHABLE tools is August campaign of Mat Con, Jimmy Scott, Conservation department, at right, tells Bill Morgan, factory superintendent, nights. Discussion followed regular meeting of Safety-Conservation General committee; Bill was substituting as chairman for John Breneman, who was on vacation. On table are numerous small tools reclaimed by George Baker's section in Department 5445; also displayed is "Good Housekeeping" sign ("A place for everything, and everything in its place"), which is Mat Con program for September. White lines crossing photo vertically are strings holding balloons, with motto:—"Keep Waste Down". Mat Con statuette at right.

Surprise!

KAY CLARK, Jobs Control (left), was one surprised girl last week when Dorothy Selhay, also of Jobs Control, presented her with a doll birthday cake, facsimile of herself. Icing, in form of big hoop skirt, was yellow, green, brown and white. Co-workers thought it was a great idea, and were on hand for rest-period cake-cutting ceremony.

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California — Wednesday, August 26, 1953

CONELRAD
640 or 1240
(See Page 3)

NRC Anaheim Clubhouse Ribbon Cutting Day

ANAHEIM'S NRC CLUBHOUSE was officially opened on Saturday, August 1, with king-size key presented by Tom Quayle, Anaheim Division assistant manager, to Bill Patrick, NRC vice-prexy for Anaheim affairs. Open house was attended by many Norcrafter families there to get look-see at new recreation facility located near plant at 1625 South Spadra Road. Many Anaheim clubs are already holding meetings in new clubhouse. Note Northrop juniors.

RIBBON-CUTTING—12:01 p.m., sharp—front: Roger McGuire, Anaheim Industrial Relations manager; and John B. Clark, Northrop director of Industrial Relations. Back: Charles Boyle, manager-PA&S, and Joe Cribbs, president, NRC; and from Anaheim—Bill Patrick, Tom Quayle, and Anaheim PA&S head, Hal Chanslor. Joe has just snipped.

TELESCOPE CLUB was one of earliest to move into new facility with a clubhouse room all its own. Many Anaheim Norcrafters are interested in optics. Here, Cliff McDaniel, new acting comish, works with his big Newton reflecting telescope, built by himself, as A. W. Tuggy, Bible Club comish, behind, and Charlie McDonell, ex star-gazer comish, peer. All Norcrafters are welcome to club facilities.

LAB ATMOSPHERE ANALYZER

FUEL TEST FACILITY INSTALLS "SNIFFERS"

Ingenious equipment used for measuring atmosphere gas content, and for sounding an automatic alarm when combustible conditions are present is helping to promote the safety of Norcrafters in the Development and Testing Laboratories.

Technically called the Combustible Gas Analyzer, the equipment is similar to that used in underground mining. Part of it is a compact panel in the control room of the Fuel Test facility, just off the flight ramp.

Leading to the panel are sixteen "sniffer" tubes, strategically placed in various sections of the department and in the pits to sample air and to bring the sample to the analyzer.

The sniffers bring in a new batch of air for sampling for 30 seconds in every four minutes. Sixteeen numbered lights on the board, corresponding to 16 areas in the department, show, when lighted, from which location the sample being analyzed comes.

After the air comes through the tubes to filters, it is automatically checked for combustibility.

When the mixture present reaches 40 per cent, an amber light on the board flashes on; and ventilating fans are automatically turned on to disperse the fumes.

Should the mixture increase in combustibility, however, to 60 per cent, the equipment holds at the light showing the offending location, a green light glows vividly, and the alarm sounds deafeningly.

The fire department, of course, is tuned in to the operation. In addition, there is, throughout the department, an elaborate network of carbon dioxide, color-code, for fighting a blaze, and there is a deluge water-fog type spray system too. Both are tested periodically.

With large quantities of JP4 jet fuel present in the area, the personnel naturally are ever-conscious of the advantage to be gained from faithful adherence to safety practices and regulations that have become an integral part of Northrop aircraft building know-how. The sniffer system is a safeguard backing up their caution.

Facility engineer at the fuel test lab is Tom Floyd; the facility operates under the jurisdiction of Assistant Superintendent, Don Swift. Supervisor of the Development and Testing Laboratories is C. P. "Chuck" Shelly.

Northrop Pilot Achieves Top Grades at Patuxent

High training honors were awarded Northrop Scorpion test pilot, Ray Tenhoff, last week, it has been announced by Max Stanley, director, Flight Department.

Ray, who came to Northrop in the fall of 1948, completed a recent test pilot schooling at Patuxent, Md., Naval Air Test Center, finishing in first place in flight program.

Thirty-four pilots were selected for the course—presented jointly by the NATC and the Navy Bureau of Aeronautics. Interesting program requirement of the men was carrier qualifications, including catapult launch. Five contractor pilots, and twenty-nine Navy pilots were chosen.

Training began early in February of this year.

Ray has over 3800 hours. He is a major in aeronautical engineering, graduating with BS degree, from Iowa State College. He served with the Air Force during the war, delivering fighters to ports of embarkation.

RAY TENHOFF — Northrop Scorpion test pilot—finished in first place in recent Naval Air Test Center flight training. Ray is carrier qualified—including catapult launch—a requisite of the course.

Ontario to Celebrate August 30

Ontario facility is now three years old, and to celebrate that anniversary, as in past years, Ontario Northrop Recreation Club is sponsoring the third annual picnic next Sunday, August 30. Site of the gala birthday occasion will be Ganesha Park in Pomona.

Festivities will get underway at 10:00 a.m. There will be basketball, softball, volleyball and all kinds of games and prizes for the kiddies, plus a swimming pool for those who wish to participate.

Picnic tables for approximately 300 people have been reserved for Norcrafter families and friends. Coffee and orange juice will be served, compliments of NRC.

Mat Con says

Good industrial housekeeping consists primarily of four aspects:

1. CONSERVATION
2. SAFETY
3. APPEARANCE
4. PERSONAL PRIDE

Institute Auto Park Lot Now Used by Norcrafters

Another general parking area is now available for use of Norcrafters with the former Northrop Aeronautical Institute parking lot being made available to personnel.

Part of the company's continuing efforts to provide space for the thousands of autos driven daily to the plant, the newly-available lot will accommodate about 250 cars, Industrial and Plant Engineering Norcrafters have stated.

The area was formerly used by students at the Institute, and became free for use of Norcrafters upon the move of the school to Inglewood recently.

Located about half-way between Plants One and Three, the area will help to pull many Norcrafters' cars off the streets. The lot is easily accessible from Broadway.

SEPTEMBER 7— LABOR DAY PLANT HOLIDAY

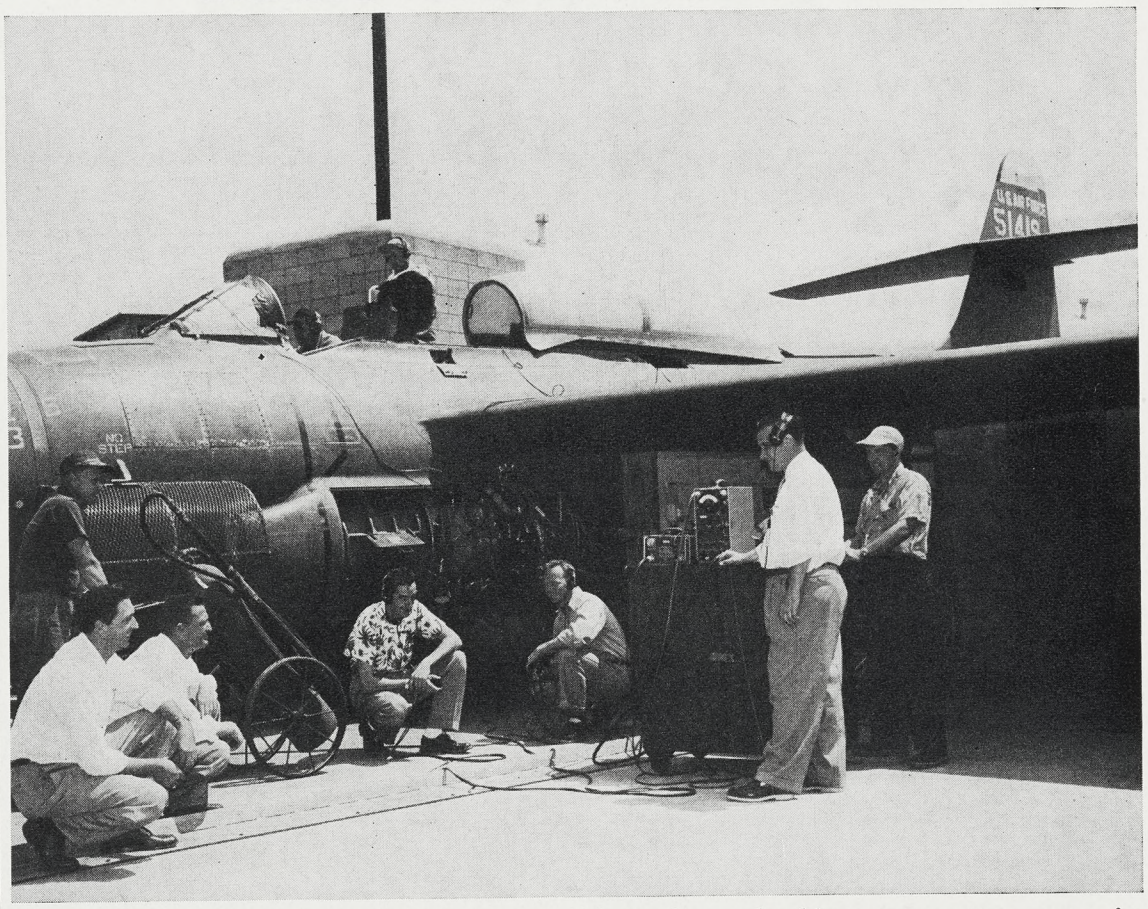
Norcrafters will enjoy the customary Labor Day holiday on September 7, they have been informed by an executive bulletin from General Oliver P. Echols.

All hourly paid personnel, not on leave of absence, will get eight hours straight-time pay for the day; those requested to work on September 7 will receive straight-time pay in addition to the holiday pay.

Part-time Norcrafters will get straight-time pay equal to their regular daily schedule.

Supervisors are advising those Norcrafters required to work as soon as schedules permit the advice.

Radio Gremlin Hunters



PERFECTION in Scorpion radio equipment—Norcrafters checking out system on noise and interference suppression program are from left: Fred DeHart, Flight Service mechanic, standing; supervisory Norcrafters Glen Stewart, Flight Service, and Ernie Underwood, Flight, kneeling; Chuck Gibbons, Engineering Lab Test engineer, and Donald Heywood, Flight Service mechanic, kneeling; Hal Malone, Test Section "D" engineer, standing; Hal Pamy, Engineering Lab Service test mechanic, right. In cockpit: Elmer Fittery, Flight Service mechanic, and Harold Dick, Flight inspector. Using Stoddard noise-level measuring equipment, Norcrafter radio interference detection team is under direction of Verne Clark—Supervisor, Electrical Tests; coordination is by Bill Royce—Schedules and Change Control. Other key Norcrafters not in photo are Ted Pumphrey—Test Lab Mechanic, and Ralph Moody and Ken Riley—Test Witnesses, Electrical Mechanical Design.

SUGGESTION AWARD PRAISED

UNIVERSITY OF CHICAGO, DAILY MIRROR

Northrop's Suggestion Award system has recently been publicized in two media, the News learned last week.

A release from the University of Chicago Press states that the suggestion system receives attention in a book to be published on August 28.

The book, "Communication In Management", by Charles E. Redfield, management consultant and New York University lecturer, mentions Northrop as one of several U.S. industries whose suggestion systems include investigation of ideas by foremen or supervisors of the suggestors.

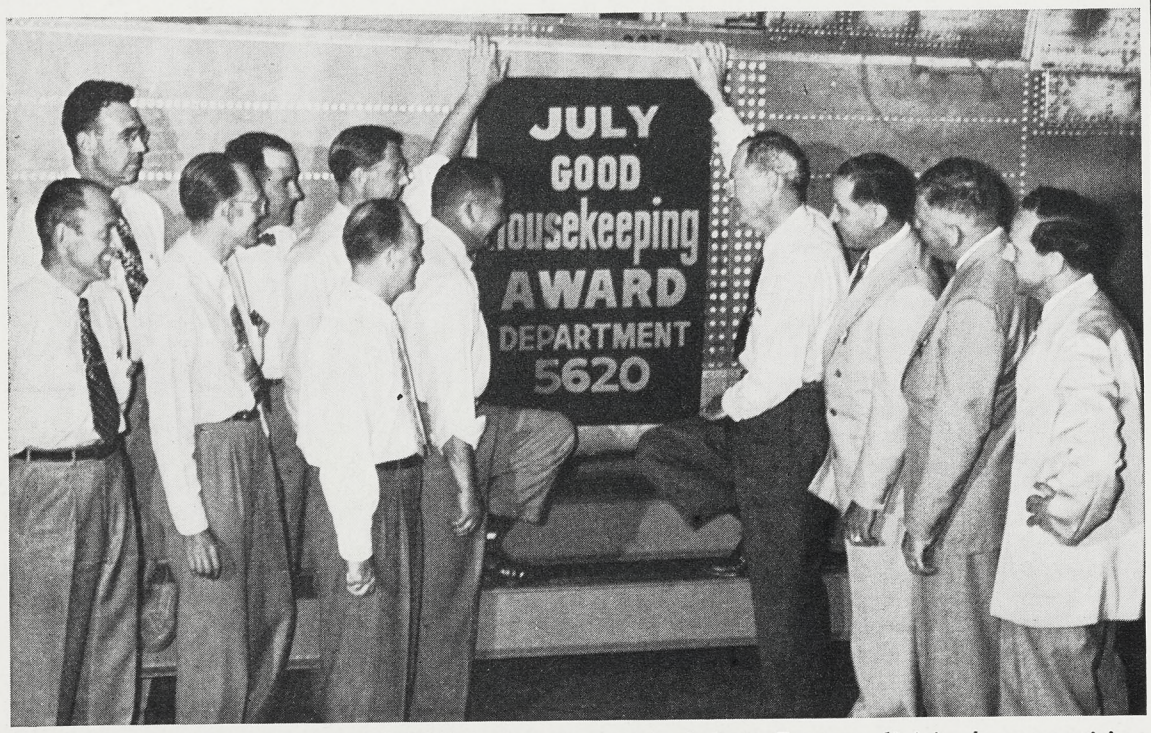
(Norcrafters of the Suggestion Award department participate in the investigation, but call on supervisory personnel for their know-how in determining usefulness of suggestions).

A second article about Suggestion Awards appeared in the Los Angeles Daily Mirror recently, pointing out the tremendous savings made possible by suggestions and the rewards given to Norcrafters who submitted acceptable ideas.

Suggestions are currently being received by the Suggestion Award department at a rate of about 200 monthly. More than a quarter of them, experience shows, will be accepted.

Records for the first five months of the year indicate that Suggestion Awards in that period totaled over six thousand dollars.

Factory Good House Champs



CHAMPION GOOD HOUSEKEEPING department in July in Factory division's competition was Department 5620 (Missile Sub-assembly and Major Structure), Plant Two. Supervision of the department is shown in photo, taken when presentation was made of poster-type award. From left, front: R. B. Clark; E. M. Norrbom and Les Kneefe, nights; Tom Blair, general foreman, accepting award from Gary Hard, chairman of final award committee; John Breneman, assistant factory manager, nights; D. W. "Red" Phillips, general superintendent, Special Weapons Manufacturing Operations; and Cliff Carter, assistant superintendent, Special Weapons Manufacturing. Back row: C. C. Flowers; C. H. Hunter, nights; and E. F. Burgmaier. Absent from photo were R. W. McCarl, days, and R. J. Kupka, nights. August winner will be announced in September. Runners-up in July competition—Departments 5503, '07, '10. Departments required apple-pie order to win.

NRC ALLEY REPS MEET TOMORROW EVE—CLUBHOUSE

NRC Bowling league representatives will meet tomorrow evening, Thursday, August 27. Meeting will be held at NRC Clubhouse and will begin at 7:30 p.m.

Winter bowling will get under way during week of September 14.

Commissioner Carson advises that there are still openings in the Mixed Four, 620 scratch, League for Thursday nights at Royal Bowl. There is also room for entrants in the all-men's handicap league to bowl at Torrance Bowl on Wednesdays at 6:30 p.m.

For further information, call PA&S, station 637.

Northrop News
Vol. 12 Northrop Field, Hawthorne, Calif. No. 3

Published every other Wednesday by
INDUSTRIAL RELATIONS DIVISION, NORTHROP AIRCRAFT, INC.
JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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News office phones—2456, 2457, 2732. Outside lines—OR 8-9111, OS 6-1121.

CONELRAD --- 640 OR 1240

(YOUR RADIO AND CIVIL DEFENSE INFORMATION)

During the past months, The Northrop News has printed a series of Civil Defense features to keep Norcrafters informed on the best ways to cope with emergency and disaster. The following outlines instructions on radio communications. In case of attack all news will be broadcast over wave lengths 640 *or* 1240.

WHY SHOULD YOU TUNE TO 640 OR 1240 ON YOUR AM (STANDARD) RADIO?

Because they are the *only* dial settings where you will receive authoritative civil defense information.

The broadcasting industry and the government, working together, have devised a special system of AM (Standard) radio broadcasting to bring you official information in time of emergency.

The system is officially entitled "Plan for *CON*trol of *EL*ectromagnetic *RAD*iation"—CONELRAD for short.

Remember that name, CONELRAD. Remember what it means—"Tune your AM (Standard) radio to either 640 or 1240."

Under the CONELRAD emergency broadcasting system, you will be able to receive radio programs from three different sources — local, State, and National. Programs originating locally will be broadcast direct. Line connections are arranged for programs originating on a State or regional basis. By using the existing network structures and line connections between stations, defense officials can broadcast programs which will reach the entire country.

WHAT ELSE SHOULD YOU KNOW ABOUT CONELRAD?

First, CONELRAD is the only safe broadcasting system yet devised to keep you informed of important civil defense news and instructions without helping enemy bombers reach their targets.

Second, CONELRAD may affect your radio listening habits in three ways:

1. CONTINUOUS METHOD: If you are in or near a large city, you will hear a continuous program of civil defense instructions and reports at 640 or 1240 kilocycles, or both, during the CONELRAD radio operation.
2. ON-OFF METHOD: In some smaller communities your local radio station, operating at either 640 or 1240 kilocycles, will be on the air for some seconds, off the air for some minutes, on the air again, and off the air again in this continuing pattern until the end of the alert.
3. NO BROADCAST: Unfortunately, CONELRAD cannot guarantee civil defense broadcasts to everyone because of technical limitations. Due to the reduction in transmitting power, a few parts of the country which normally receive AM (Standard) radio broadcasts may no longer be able to hear the diminished signal. Your radio *may* be silent, though experts are working to prevent this possibility.

WHICH NUMBER (640 OR 1240) IS THE RIGHT ONE FOR YOUR CITY?

Every effort will be made to tell you long in advance which AM frequency (640 or 1240) will be used in your community. In most large cities, both frequencies will be used. If you do not know which to rely on, tune from one of these dial settings to the other until the broadcast comes in.

Do not be alarmed if you receive no information for a brief period after the radio alert has been announced. It takes a little time to switch from regular broadcasting to the special CONELRAD system. Wait a few minutes and then try 640 or 1240 again, whichever is designated for your area.

SUPPOSE THE SIGNAL "FADES" . . . IS SOMETIMES STRONG AND SOMETIMES WEAK. DOES THAT MEAN ANYTHING?

Yes, it does. When the CONELRAD continuous method is in operation, all stations in a community are required to reduce power and to broadcast a common program. Each station is on the air for only a few seconds at a time. Then another local station picks up as the other leaves off. You will hear a single program but it is coming to you from a number of different stations—some of which are nearer to you than others.

This may cause a signal that is sometimes weak and sometimes strong. If this happens, turn the volume up to the point where you can hear plainly, even though it may ocasionally be quite loud.

IF SOME COMMUNITIES USE 640 AND OTHERS USE 1240, HOW WILL YOU KNOW THAT YOU ARE TUNED TO THE OFFICIAL DEFENSE BROADCAST?

Find out as soon as possible from your local civil defense office or radio station which frequency will be used in your community. Then mark it permanently on your AM (Standard) radio dial, so you will always know the correct setting. In order not to help the enemy, there will be no station identification in an emergency.

HOW WILL YOU KNOW WHEN THE EMERGENCY SYSTEM OF RADIO BROADCASTING IS GOING INTO EFFECT?

If you are listening to any kind of radio or television set when the alert sounds, you will hear a message like this:

> "We interrupt our normal program to cooperate in security and civil defense measures as requested by the United States Government . . . This is a CONELRAD radio alert . . . Listen carefully!
> "This station is now leaving the air. During the CONELRAD radio alert there will be no FM or TV programs. The only program on the air will be on your standard radio at 640 or 1240 kilocycles, starting in a few minutes. Tune your standard radio receiver to 640 or 1240 kilocycles for official instructions, news, and official information."

If you are not listening to your radio or TV set when this announcement is made, when you hear the civil defense sirens or attack warning signals, you will know that the CONELRAD system has gone into operation. Tune your AM (Standard) radio at once to the proper dial setting —640 or 1240.

WHAT KIND OF RADIO SHOULD YOU HAVE FOR RECEIVING OFFICIAL INFORMATION?

As long as the flow of electric power is uninterrupted, your regular AM (Standard) radio set will do the job.

However, a battery-operated or portable radio is your best insurance that you will continue to receive official civil defense news and instructions even if local power fails. If you possibly can, have such a radio in your shelter area.

Your automobile radio will be a useful auxiliary set. Auto radios are battery operated. Unless your car is damaged or not operating, you can count on your car radio for receiving official civil defense information via the CONELRAD system.

WHO GIVES THE SIGNAL FOR CONELRAD TO START AND STOP?

The Air Defense Command, U. S. Air Force, will order the attack warning which will activate the CONELRAD system. AM (Standard) radio stations will switch, in a matter of minutes, to the emergency broadcasting system on one of the two officially designated CD frequencies—640 or 1240 kilocycles (marked as 64 or 124 on most radio dials).

The Air Defense Command, U. S. Air Force, also determines when it is safe for radio to resume normal broadcasting following the radio alert.

WHAT WOULD YOU DO IF — — —

enemy bombers *were* to attack our country? How do you find out quickly what is happening and what to do?

Prompt, accurate civil defense information could help save your life, your neighbor's . . . your city.

The CONELRAD system of Public Emergency Broadcasting is one of the surest and fastest ways of getting word to you under attack conditions. If our country is ever attacked, here's *how* and *where* you will get official civil defense news and instructions.

Your television set and FM (frequency modulation) radio will go off the air in a civil defense emergency, because their broadcasting beams could be used as direction finders by enemy bombers. Use your AM (Standard) radio.

NRC Kelpworms will Dive At San Nicholas Island

The NRC Skin Diving Kelpworms will join force with another skin diving club and charter a boat for a two-day trip to San Nicholas Island, according to Commissioner Eldon Burgess. The "Clorinda" (a crash boat) will leave Fellows and Stewart Yacht Landing, Wilmington, at 6:00 a.m. on September 19.

Occasion of the trip is to give club members a better chance to spear championship-type fish to enter in the Annual Skin Diving Derby. The Derby, sponsored by the Council of Skin Divers, is held during the months of September and October in coastal waters of California. Winners will be awarded very attractive merchandize prizes.

Each should bring his own food and bedding. Party will return to Wilmington on Sunday, September 20. Cost of the trip is $10 per person. For reservations call Personnel Activities & Services, station 637.

Norcrafter Sport Cars Win Bacon

NRC Sports Car Club recently participated in an "all aircraft" time trials (one at a time) at Costa Mesa. The event was sponsored by the North American Club.

Northrop drivers maintained the club's reputation for bringing home the awards. About sixty cars from North American, Douglas, Hughes and Airesearch, Lockheed, Pacific Sport Car Club and Northrop took turns bending their cars around the corkscrew 1.3 mile course.

Second best time of the day and second place in the over 1500 cc modified class went to Hal Hunsberger, Planning. An unexpected modification was a borrowed axle installed between laps.

Mary Bishop, wife of Noble Bishop, Engineering Lab, took third place with the girls.

First place in the 1500 cc stock class was won by Jack Kahlo, Production Engineering. (Editor's Note: That division seems to be leading in Sports Club participation. Other active members from the division are Jack Ward, Bob Lieber, Lou Perry, Don Miller, Carroll Enoch, Tom Tripp and Bill Schramm).

NRC Sports Car Club meets second Thursday each month at the NRC Clubhouse. For further information, call PA&S, extension 637.

MUROC, ONTARIO BOWLERS KEGGLE IN LANCASTER

Edwards and Ontario Norcrafter bowling stalwarts numbering an anticipated 100 to 125 enthusiasts—were scheduled to meet for their second annual challenge match last Sunday afternoon at A. V. Bowl in Lancaster, according to report from Thomas Dills, Edwards' Bowling commissioner. Later, following the match, the keglers were to meet in a giant steak fry at the Locust Gardens.

The big inter-facility bowling session follows the pattern set last year when Edwards Norcrafters journeyed to Pomona to match kegling skills with their Ontario brethren. The desert Norcrafters took the NRC plaque home with them from that trek, and last Sunday were defending title in their home lanes.

NORCRAFTER TMs TO SPEAK WITH AIRESEARCHERS

Norcrafter Toastmasters have scheduled their next joint meeting with AiResearch Toastmasters club—for Thursday, August 27, at 6:30 p.m. NRC members and their fellow speakers will dine at the Western Club, 15516 South Western Avenue, Gardena.

Interested Norcrafter men are invited to attend. Dinner will be $2 per plate, and reservations can be arranged through Pernel Activities and Services, extension 637.

Choperettes 450 Alley Champions

NRC Women's 450 Scratch League keglers racked up the season's last frame on August 13 in Gardena Bowl, the Choperettes narrowing out the Krazy Kats in a close two-out-of-three playoff.

Choperettes Selma Davey, Marge Howsare and Mary Lieber settled the issue following a tie until the ninth frame of the third game with Nell Vincent, Katie Schmidt and Betty Rice of the Krazy Kats.

Other Norcrafters winning trophies for their season's play —Kay Stuart, Missile Guidance Fabrication, with an individual game high of 215; and Florence Rice, Property Accounting, with series high of 567. Most improved bowler was Lucille Ware, F-89 Outside Final Assembly.

BOWLERS NEEDED

The call is out for lady bowlers who would like to bowl in the ladies' 450 Scratch Trio League at Torrance Bowling Academy.

Also open for lady bowlers is the handicap foursomes at Redondo Beach Recreation Center.

Both leagues start Tuesday, September 15, 6:30 p.m. For information, call Personnel Activities & Services, extension 637.

CAMERAMEN SEE PRINTS, COLOR TRANSPARENCIES

Night shift Camera Club lensmen met in NRC Annex on August 15, to show a selection of prints and color transparencies. The material displayed by Norcrafter photo followers shows promise for entrance in future print competition, according to Adam Slusarz, acting commissioner of the club.

Location of the NRC Annex where the camera club meets every other Saturday, is behind the main Clubhouse on Hawthorne Boulevard. Next meet—August 29.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
SUNSET & ALVARADO ST (Alvarado to Olympic, to Crenshaw, to plant. Have Room for four persons), Los Angeles. EDWARD MANN (5620-56, Ext. 2233), DU 3-6776. (12-1-1)

73RD ST & BRIGHTON AVE. (One block west of Normandie. Can drive via Vermont, Normandie, Western, Crenshaw or Prairie Ave. Room for 3 or 4 riders), Los Angeles. PAUL A. CLARKE (5586-44, Ext. 1973), PL 3-9822. (12-1-1)

(Zone 2)
CENTRAL & SLAUSON (Call after 5 p.m. at home phone. 2 riders wanted), Los Angeles. MANUEL M. VERDUGO (5588-69, Ext. 1938), AD 1-4852). (12-1-2)

(Zone 10)
ANZA & 133RD ST. (Across 133rd St. to Broadway, to plant), Hawthorne. LEE WOOD (5507-30, Ext. 526). (12-1-10)

(Zone 13)
PACOIMA. (Woodman to Sherman way to Van Nuys Blvd. thru Bevery Glen, Overland, Centinella to Prairie to Plant One can take two riders), Pacoima. MORRIS FIGOFF (5587-367, Ext. 1947), EM 2-5541. (12-1-13)

(Zone 14)
WESTERN & SANTA MONICA. (Route Western, Arlington far as Van Ness), Hollywood. W. J. FORBELL (5234-17, Ext. 1809). (12-1-14)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 10)
SECOND & AVIATION, Manhattan Beach. CLYDE M. KELLEY (5353-84, Ext. 1536), FRontier 4-4684. (12-3-10)

(Zone 13)
OLYMPIC & BEVERLY GLEN. (Interested in car pool), West L. A. ADDISON J. FANCON (3410-58, Ext. 746), CR 6-3930. (12-3-13)

(Zone 14)
WESTERN & SANTA MONICA. (Route Western, Arlington far as Van Ness), Hollywood. W. J. FORBELL (5234-17, Ext. 1809). (12-3-14)

RIDES OFFERED

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 2)
WESTERN & 92ND STREET, Los Angeles. KATHLEEN EMGE (9320-37, Ext. 2151), PL 3-6744. (13-1-2)

(Zone 5)
SANTA ANA. (I drive Hiway 101 to Orangethorpe Ave.—cross to Lakewood Blvd.—then Rosecrans to Crenshaw.) HOWARD ELLIOTT (9320-85, Ext. 2151). (13-1-5)

(Zone 12)
OLYMPIC & 3RD (Sears Roebuck, Santa Monica. GEORGE J. LANK (5910-834, Ext. 2541), EX 6-2280.

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
VERMONT & LOS FELIZ, Las Angeles. EMMETT SHIELDS (3140-37, Ext. 459A), NO 2-4734. (13-3-1)

SOTO ST. (Will pick up any place along route: Soto St. from Mission Rd. to Slauson, Slauson from Soto St. to 8th Ave.), Los Angeles. C. M. CODERRE (3521-352, Ext. 565), CA 1-0025. (13-2-1)

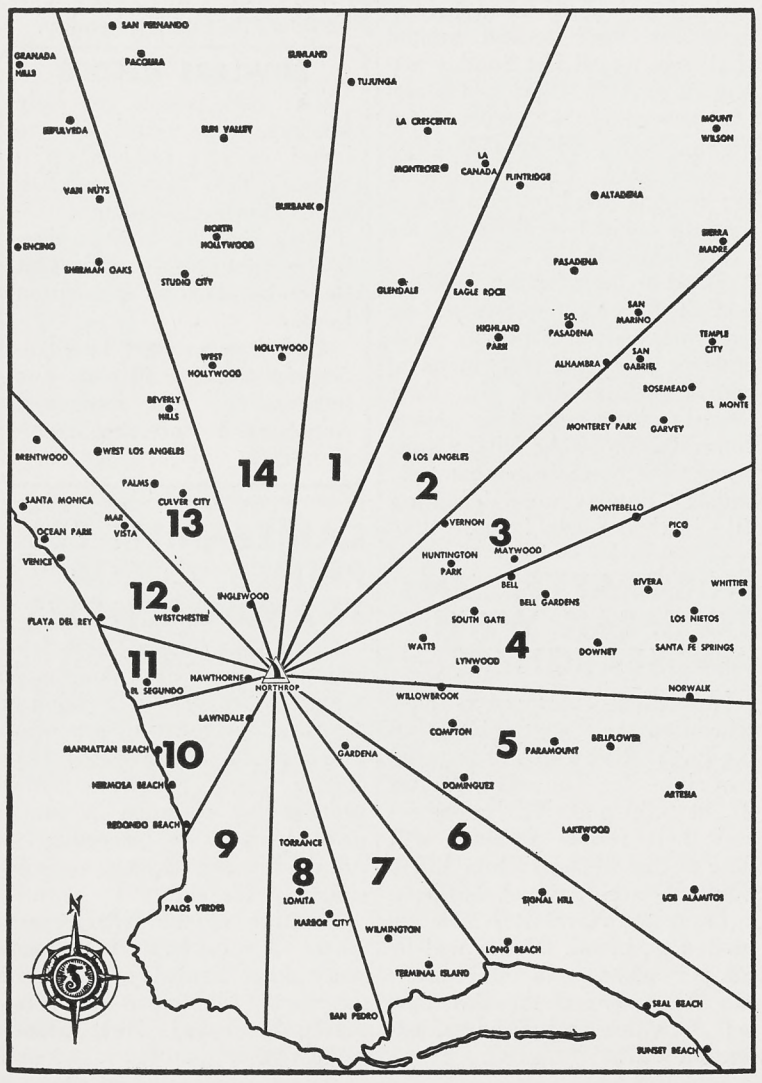
ADAMS & VERMONT. (Car pool preferred). Los Angeles. LEE JOCOBS (8620-12, Tieline 2011, Ext. 29). (13-3-1)

(Zone 10)
MARINE & HIGHLAND, Manhattan Beach. A. D. PHILLIPS (3140-871, Ext. 797 or 796), FR 4-2174. (13-3-10)

MANHATTAN AVE. & PIER AVE. (Either way: Redondo Beach Blvd. or Manhattan Beach Blvd.), Hermosa Beach. RALPH GAUT (3272-824, Ext. 1274), FR 2-9880. (13-3-10)

(Zone 14)
FRANKLIN & WESTERN or VAN NESS, Hollywood. H. G. STARCK (3310-114, Ext. 421), HO 4-4755. (3-14)

SOMERSET & ROSALIA (Three blocks from Santa Barbara & Crenshaw), Los Angeles. EDWINA PENDLETON (3149-33, Ext. 2021). (13-3-14)



RIDES OFFERED

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 14)
CRENSHAW BLVD. & RODEO ROAD. (Arrive at Plant III in time to catch the bus at 7:03 a.m. to Plant I), Los Angeles. KAROLL SHURTZ (3120-21, Ext. 1226 - 439), AX 2-3692. (13-3-14)

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 13)
WASHINGTON BLVD. & ALLA RD. (Or Wash. & Sepulveda, or Sepulveda & Jeff, or anywhere up Sepulveda to Brd. Way), Venice. PERRY SCHUTZ (5354-231, Ext. 467). (16-1-13)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 4)
GLENDORA BLVD. & MAPLE GROVE ST. (Want someone from W. Covina or Baldwin Park or Puente to share cars and rides. I drive one week—he next—Alternate), Puente. G. TED COSTA (5503-238, Ext. 2681). (18-1-4)

(Zone 5)
BELLFLOWER BLVD. & CARSON AVE. or Lakewood Blvd. and Carson Ave. (Take three riders), Lakewood. B. EDWARDS (7000-252, Ext. 1578). (18-1-5)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
ATLANTIC & SAN ANTONIO DRIVE. (Ride pool preferred), Long Beach. W. G. BURKETT (5353-226, Ext. 1688), L. B. 203-737. (18-3-5)

WILMINGTON & COMPTON BLVDS. (Can go down to Alameda and up Rosecrans), Compton. FRANCES L. ORR (5621-224, Ext. 2649), NE 2-1081. (18-3-5)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 10)
HERMOSA BEACH TO HIGHLAND BLVD. TO ROSECRANS, Hermosa Beach. KEITH SCHOCK (6100-215, Ext. 1209), FR 2-7754. Works 4:15 to 1:00 a.m. (20-1-10)

RIDES WANTED

6:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 3)
ATLANTIC & WHITTIER BLVDS., East Los Angeles. JOHN TOURINO (5515-83, Ext. 1804), UN 1-6764. (1-3-3)

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
60TH & WESTERN. (Can be picked up at any intersection on 60 Place between Western and Normandie), L. A. MARIE D'ANNA (3411-853, Ext. 1349), PL 2-8049. (2-1-1)

(Zone 4)
FLORENCE & DOWNEY AVE., Downey. H. W. McGUIRE (5162-381, Ext. 548). TO 23921. (2-1-4)

BELLFLOWER & IMPERIAL, Downey. WILLIAM E. ROGERS (7220-29, Ext. 2479), TO 9-1527. (2-1-4)

(Zone 5)
ATLANTIC & COMPTON, Compton. BETTYE CRANFORD (5534-54, Ext. 2244), ME 3-1872. (2-1-5)

CENTRAL AVE. & ROSECRANS AVE., Compton. WILMA J. OWEN (5524-318, Ext. 2209). (2-1-5)

COMPTON BLVD. OR OLIVE & WILMINGTON, Compton. ALMA E. BACHORSKI (5508-98, Ext. 2230). (2-1-5)

(Zone 6)
AMERICAN & 7TH ST., Long Beach. S. M. SEARS (5503-332, Ext. 2681), LB 9-08375. (12-1-6)

PACIFIC AVE. & 21ST, Long Beach 6. LESTINA K. MASON (5507-43, Ext. 526), LB 631-532. (2-1-6)

SANTA FE & HWY. 101 or SANTA FE & CARSON, Long Beach. JANE G. GAYLE 5507-54, Ext. 526), LB 6-0340. (2-1-6)

(Zone 9)
VINCENT & LUCIA or EMERALD & LUCIA, Redondo Beach. ELEANOR M. LYNCH (5585-25, Ext. 1382), FR 2-5646. (2-1-9)

(Zone 10)
INGLEWOOD AVE. & COMPTON BLVD., Lawndale. B. D. MARSH (5587-127, Ext. 1947), OS 67296. (2-1-10)

PROSPECT & TULITA, Redondo Beach. REX GAMBLE (5233-27, Ext. 1456), FR 5-5782. (2-1-10)

ROSECRANS & DOTY AVE. (Perfer to ride with a woman), Hawthorne. PATRICIA C. HOSE (5352-24, Ext. 1445). (2-1-10)

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 11)
MAIN ST. & WEST WALNUT, El Segundo. GILBERT BONES (5503-330, Ext. 2681), EL 1957J. (2-1-11)

(Zone 12)
WATERVIEW & VISTA DEL MAR, Playa Del Rey. N. F. McGAFFEY (3410-81, Ext. 445), EX 6-4631. (2-3-12)

(Zone 13)
DOWNTOWN VAN NUYS (Can meet any place in Van Nuys If you want to can have car pool or not), Pacoima. MORRIS FIGOFF (5587-367, Ext. 1947), EM 2-5541. (2-1-13)

OLYMPIC & BEVERLY GLEN. (Interested in car pool), West L. A. ADDISON J. FANCON (3410-58, Ext. 746), CR 6-3930. (2-1-13)

(Zone 14)
BUCKLER & ALVISO, Los Angeles. B. JOHNSON (7230-44, Ext. 575), AX 2-7026. (2-1-14)

SANTA MONICA BLVD. & LA BREA AVE., Hollywood. RALPH M. COOPER (5503-148, Ext. 2431). (2-1-14)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
BELLFLOWER AVE. & ROSECRANS AVE., Bellflower. EARL K. HEDGES (5520-95, Ext. 1233), TOrrey 6-4604. (2-3-5)

(Zone 7)
WESTERN & 166TH ST., Gardena. JOSEPH SCHNEIDER (5538-30, Ext. 525), ME 9-3322. (2-3-7)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 1)
60TH & WESTERN. (Can be picked up at any intersection on 60 Place between Western and Normandie), L. A. MARIE D'ANNA (3411-853, Ext. 1349), PL 2-8049. (3-1-1)

HOOVER & VENICE OR WASHINGTON & HOOVER. Los Angeles. MADELYN MYERS (8400-13, Ext. 1406 or 2345), RI 7-8416. (3-1-1)

(Zone 5)
HIWAY 101 & ORANGETHORPE (I drive Hiway 101 to Orangethorpe Ave.—cross to Lakewood Blvd.—then Rosecrans to Crenshaw), Santa Ana. HOWARD ELLIOTT (9320-85, Ext. 2151). (3-1-5)

(Zone 6)
VAN NESS & 144TH ST., Gardena. DOROTHY ELLIS (9350-60, Ext. 2009). (3-1-6)

(Zone 7)
CARSON & FIGUEROA, Torrance. LUCILE GIFFORD (5121-39, Ext. 1392), FAirfax 8-3403. 3-1-7

(Zone 8)
PACIFIC or GAFFEY & 7TH, San Pedro. BONNIE HEINTZ (5128-214, Ext. 1656). (3-1-8)

COMPTON BLVD. & CRENSHAW, Gardena. ETHEL JENKINS (4100-25, Ext. 2332), OS 6-2026. (3-1-8)

PACIFIC COAST HI-WAY & CRENSHAW. (Ride wanted from Pacific Hills in Walteria or will carry passengers if interested. Down Hawthorne to Redondo Beach to Prairie), Torrance. JOE REED (5530-90, Ext. 1544), DA 6-5558. (3-1-8)

(Zone 9)
HWY. 101 & JUANITA (Near Di Simones Market), Redondo Beach. MARION J. PRICE (8100-44, Ext. 2771), FR 2-0390. (3-1-9)

(Zone 10)
VALLEY DRIVE & POINSETTIA, Manhattan Beach. WENDELL V. SWANSON (3233-75, Ext. 780). (3-2-10)

(Zone 12)
BELLANCH & MANCHESTER, Westchester. GLORIA MARTINEZ (4100-37, Ext. 2331), OR 7-6845. (3-1-12)

WATERVIEW & VISTA DEL MAR, Playa Del Rey. N. F. McGAFFEY (3410-81, Ext. 445), EX 6-4631. (3-1-12)

OLYMPIC & 3RD (Sears Roebuck), Santa Monica. GEORGE J. LANK (5910-834, Ext. 2541). EX 6-2280.

(Zone 14)
BUCKLER & ALVISO, Los Angeles. B. W. JOHNSON (7230-44, Ext. 575), AX 2-7026. (3-1-14)

10TH AVE. & 63RD. (Near Crenshaw & 63rd.), Los Angeles. ROSEMARY KNOTT (1441-25, Ext. 691), PL 3-0735. (3-1-14)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
CENTURY & VAN NESS, Los Angeles. LAURA J. CROOK (3410-887, Ext. 1982), PL 5-0677. (3-3-1)

(Zone 5)
134TH ST. & NORMANDIE, Gardena. GERTRUDE ACKERMAN (3310-23, Ext. 462), MEnlo 9-2352. (3-3-5)

(Zone 7)
AVALON & SEPULVEDA, Wilmington. KAY HART (6269-63, Ext. 2502 or 2503), TErminal 4-6182. (3-3-7)

(Zone 10)
MARINE & HIGHLAND, Manhattan Beach. A. D. PHILLIPS (3140-871, Ext. 797 or 796), FR 4-2174. (3-3-10)

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 10)
INGLEWOOD AVE. OR HAWTHORNE BLVD. & 135TH ST., Hawthorne. MARTIN S. ALLISON (3480-36, Ext. 1647 or 1648), OS 62919. (3-3-10)

(Zone 11)
EL SEGUNDO BLVD. & RAMONA AVE., Hawthorne. VIOLET ISAACS (3110-15, Ext. 787 or 1892), OSborne 6-2705. (3-3-11)

(Zone 14)
SOMERSET & ROSALIA (Three blocks from Santa Barbara & Crenshaw), Los Angeles. EDWINA PENDLETON (3149-33, Ext. 2021). (3-3-14)

FRANKLIN & WESTERN or VAN NESS, Hollywood. H. G. STARCK (3310-114, Ext. 421), HO 4-4755.

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)
SUNSET BLVD. & ALVARADO ST. (Any locality in or near Echo Park), Los Angeles. ROBERT J. WINSTANLEY (5587-255, Ext. 1947), DU 2-0664. (8-1-1)

BEVERLY BLVD. & ALEXANDRIA AVE., Los Angeles. JULIO A. BARROSO (5508-265, Ext. 2766). (8-1-1)

(Zone 3)
94TH ST. & NORMANDIE AVE., Los Angeles. MILDRED DE NOOY (5235-213, Ext. 1827A), PL 1-9809. (8-1-3)

(Zone 4)
GLENDORA BLVD. & MAPLE GROVE ST. (Want someone from W. Covina or Baldwin Park or Puente to share cars and rides. I drive one week—he next—Alternate), Puente. G. TED COSTA (5503-238, Ext. 2681). (8-1-4)

(Zone 5)
WILMINGTON BLVD. & OLIVE ST., Compton. ROLAND C. BEARDEN (5620-640, Ext. 2233). (8-1-5)

(Zone 6)
ROSECRANS & WESTERN, Gardena. MRS. BESSIE L. LEWIS (5508-453, Ext. 2230), ME 9-1797. (8-1-6)

(Zone 7)
VERMONT & CARSON, Los Angeles. A. W. BLUM (5585-403, Ext. 1381). (8-1-7)

(Zone 8)
244TH & WESTERN, Lomita. C. L. ESTELL (5544-428, Ext. 2645), DA 6-1956. (8-1-8)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
ATLANTIC & SAN ANTONIO DRIVE. (Ride pool preferred), Long Beach. W. G. BURKETT (5353-226, Ext. 1688), L. B. 203-737. (8-3-5)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 10)
RINDGE LANE & MARSHALL FIELD LANE. (Work hours 4:15 p.m. to 1:00 a.m.), Redondo Beach. PAT JACQUES (6150-217, Ext. 1524), FR 2-0995. (10-1-10)

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 637. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BOWLING
Florence Rice, commissioner
Winter Leagues now forming. All ladies interested please contact PA&S.

DINNER CLUB
Cathy Waffel, commissioner
Next meeting Sept. 14th. Interested ladies please contact PA&S.

GOLF
Nora Donnici, acting commissioner
Tuesday evening only. Meets La Tijera Driving Range (7:00 pm.) and Culver City Golf Course (6:30 p.m.) on alternate weeks. Call PA&S.

INTERIOR DECORATING
Donna Pratt, acting commissioner
Meet every Thurs., 7:30 p.m., NRC Clubhouse.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m. NRC Clubhouse. Instruction provided.

MARINERS
May Hawkins
Meet Thursday, 7:30 p.m., Scout Cabin, 134 Grevillea, Hawthorne. Open to teen-age daughters of Norcrafters.

SLIM 'N TRIM
Dorine Benkendorfer, acting commissioner
Meet every Monday, 7:30 p.m., NRC Clubhouse.

SOFTBALL
League in progress—Ladera Park, 7:00 p.m., Tuesdays.

TOASTMISTRESS
Marie L. Sauer, representative
Meet first and third Thursday, NRC Clubhouse. 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below. call or contact Personnel Activities and Services, Plant One, 637; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BALLROOM INSTRUCTION
Discontinued for balance of summer. Watch for new starting date.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily, Conference room 1-5 11:00 a.m. lunch period. Plant III 12:15 p.m. Conference Rm. 5.

BOAT CLUB
Harold Senter, commissioner
Catalina Cruise Labor Day weekend. Reservations on "White Cloud" available. $15 per person. Call PA&S.

BOWLING (DAYS)
Chuck Carson, commissioner
Winter Leagues forming. Entry forms available at PA&S, Plants I & III.

BOWLING (Nights)
Tony Cardoza, act. commissioner
Winter Leagues forming. Entry forms available at PA&S, Plants I & III.

BRIDGE
Bill Close, acting commissioner
Meet first and third Tuesdays each month, 7:30 p.m., NRC Clubhouse.

CAMERA CLUB (DAYS)
Walt Darby, commissioner
Meet every other Friday, NRC Clubhouse annex. Next meeting Friday, Sept. 4.

CAMERA CLUB (NIGHTS)
Adam Slusarz, acting commissioner
Meet every other Saturday, NRC Clubhouse Annex. Next meeting Aug. 29, 8:00 p.m. Equipment demonstration. Bring cameras. Also darkroom demonstration in lab routine & enlarging.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

FISHING (DAYS)
Hal Hathorne, commissioner
Next cruise of the month Saturday, Sept. 12, the "Ino." Make reservations at PA&S.

FISHING (NIGHTS)
Chuck Bija, commissioner
Next cruise of the month, Sun., Sept. 6, the "Terleen." Make reservations at PA&S.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Room. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (DAYS)
Jim Milne, commissioner
Golf "Jamboree" at Western Ave. to Sept. 3.

GOLF CLUB (NIGHTS)
Bill Levens, commissioner
Meets every Thurs., 8:30 a.m. Fox Hills Country Club. 36-Hole Medal Play for the Swing Shift Golf Championship, Sept. 24 & Oct. 1st. All entries must have established handicap.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m., 1016 No. Market St., Inglewood. Sunday, 9:00 a.m. to 12:00 noon.

PHILATELIC CIUB
George Borton, commissioner
Philatelic & Numismatic combined club meets 2nd & 4th Mondays each month, NRC Clubhouse, 7:30 p.m.

RIDING CLUB
Don Danner, commissioner
Next ride September 13th. See next issue for details.

SEA SCOUTS
Frank Ziegler, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Sept. 5th. Members interested in reloading ammunition meet at the NRC Clubhouse Mon. Eves.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Aug. 28, NRC Clubhouse Board Room.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse.

SQUARE DANCING
David Dyer, commissioner
Beginners' refresher course starting Sunday, Sep. 13. Meet every Sunday thereafter from 7:00 to 10:00 p.m.

SURF FISHING
Ted Griswold, acting commissioner
Club meeting Thurs., Aug. 27, 7:30 p.m., NRC Clubhouse. Fishing movies.

SWIMMING
Betty Jo Razor, acting commissioner
Discontinued until next summer.

TOASTMASTERS (DAYS)
Jack Akin, representative
Meet every Thursday 6:30 p.m. Western Club Cafe, 15516 So. Western, Gardena.

TOASTMASTERS (NIGHTS)
Merle Childress, acting commissioner
Meet Thursdays, 12:00 noon. Western Club Cafe, 15516 So. Western, Gardena.

TRAILER
All interested Norcrafters submit name, department, and clock number to PA&S.

TROPICAL FISH CLUB
Les Squires, acting commissioner
Meet last Wednesday each month., NRC Clubhouse. Tonight—Films—Lecture.

Annual Tee Test Open Announced

The Annual NRC Golf Open Tournament will be held on Sunday, September 13, and Sunday, September 27, reports Commissioner Jim Milne, days. Play will be at Western Avenue Golf Course. Starting time is 11:00 a.m. and at six minute intervals until all registered foursomes have teed off.

All Northrop golfers with established handicaps in the Club are invited to participate. Entry blanks are available at Personnel Activities and Services, Plants One and Three. Entries should be returned to PA&S by Thursday, September 3.

First and second place awards will be given in each of the four flights: Presidents (Scratch through ten handicap), Vice Presidents (eleven through fifteen), Secretaries (sixteen through twenty-two), and Treasurers (twenty-three and up). There will be a playoff later of the winners of each of the four flights for plant championship.

American-National Down Home Standings Stretch

Competition is top flight in both the American and National Leagues of NRC Softball as the final playoffs at the end of the season for all leagues loom near.

Team standings as of August 14 were:

AMERICAN LEAGUE

Team	Won	Lost	Tie
5620	12	1	0
5587	7	1	1
5353	6	6	0
5100	4	6	2
5530	1	9	2
Institute	0	9	1

NATIONAL LEAGUE

Team	Won	Lost	Tie
5515	10	2	0
9340	8	2	2
3230 #1	9	3	0
3230 #2	9	3	0
3270	8	3	0
Lynwood	7	3	2
5042	7	4	0
5501	6	4	2
8320	6	5	0
5437	5	4	1
5585	5	5	2
5502	4	7	0
3460	4	7	0
3550	3	8	0
3410	2	7	1
3230 #3	2	8	0
3310	1	11	0
5223	1	11	0

The top ten hitters in NRC Softball leagues as of August 14 were as follows:

Name	Department	Average
Simonek	5530	532
White	5620	412
Graham	5587	400
J. Jones	5587	375
Clayton	5530	375
Luymes	5587	375
Moore	5587	366
Hayes	5353	350
Gibilisco	5620	340
Alvarez	5587	322

NATIONAL LEAGUE

Name	Department	Average
Prout	3550	529
Bierne	3230 #2	500
Kostenbader	5437	500
Price	3230 #1	480
Hamilton	9340	479
Romano	3230 #2	458
Fritzel	3230 #2	444
Hardin	5437	435
Walker	5437	435
Piccerelo	Lynwood	432

PRESSTIME FLASH — Jack Jones (5587, American) pitches no hitter and losses in pitchers' battle with Tommy White (5620, American). The game, played August 18, ended with 5587 getting no runs, four hits and four errors. 5620 had two runs, no hits and one error. (The battling pitchers, as of August 14, each had three no hit—no run games this season.)

Deep Bow to Florida for Gerstle aid

By Joe Cribbs
President
Northrop Recreation Club

Congratulations are in order all around to the six newly elected NRC commissioners—see photos adjoining. . . Fall will bring the customary and traditional upswing in all extra curricular activities. These folk spell good recreation when and where it is needed come September, October, November, December.

★ ★ ★

We also have a new vice-president. Joe Carver, Flying Club representative, has now moved into VP spot where a good man is always needed. Joe will have plenty to do but the duties, multitudinous as they are, should set well on the Carver shoulders. (See pix, page 6.) Congratulations, Joe, from all.

★ ★ ★

It might be well to pause and consider the new legislature from Sacramento that affects Californian sportsmen—. Of immediate and local concern to Southern Californians and Norcrafters and the Air Force Office. . . . Members of the Armed Forces on active duty may fish without an anglers license. . . . No more archery deer hunting tags—Robin Hoods can use regular deer hunting tags. . . . Refuges 4F in San Diego County are closed. . . . Any person who wounds or kills another while hunting will have his license revoked. Anyone who wounds or kills a domestic animal loses their license for five years. Totally disabled war veterans will henceforth get hunting and fishing licenses, pheasant and deer tags—free.

★ ★ ★

Arizona and California have gotten together to the extent that a $2 special use permit will suffice for the Colorado River area in addition to regular licenses.

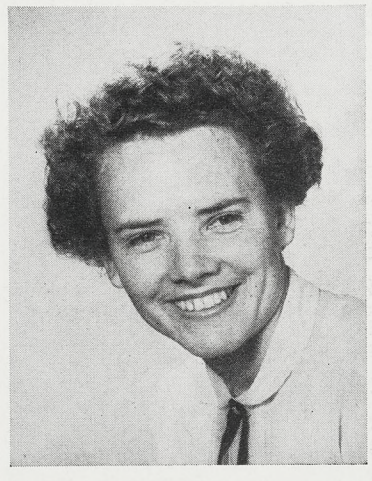
★ ★ ★

Did you read about the Florida people and Benny Gerstle in the last issue of the News? Benny's urgent need for rare type blood—10 pints—was subscribed (and over-subscribed) within five minutes after the call went out over the base public address system. This is typical Norcrafter support of friends and fellow workers in need. It is tradition at Northrop Field that the periodic visits of the Red Cross Blood Bank are oversubscribed months and even years in advance. When Personnel Activities and Services sends out cards asking for donors, enough Norcrafters respond to the call to take care of three visits. Each Red Cross Blood Bank unit has a capacity of 600 pints. This is Norcrafter cooperation with a capital "C".

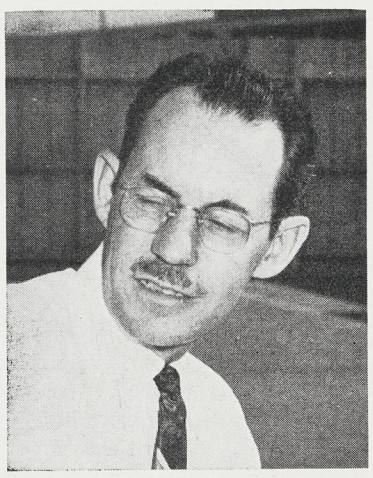
N R C Commissioners Elected

GEORGE BORTON, Electro-Mechanical Design, has been reelected NRC Philatelic commissioner. George was Philatelic comish in 1950 at which time he inaugurated the popular Northrop Junior stamp-collecting program.

NRC MODEL RAILROAD Commissioner Gene Boggess (Wood Shop) 13-year Norcrafter, is a model enthusiast from 'way back. Airplanes, cars, boats, trains each had a turn. Gene has his own model railroad layout now.



BESS GHERNA, Assembly Stores, is commissioner of Women's NRC Softball. Northrop girls finished third in LA City League. Bess has also been acting commissioner of NRC Basketball since its reactivation last season.



JUST ELECTED NRC Bowling commissioner, days, is Chuck Carson, Operations Analysis. Chuck, a Northrop bowler of two years, was recently elected member of the Los Angeles Bowling Association's Board of Directors.

BALLOTTING recently among NRC Women's Dinner Club members resulted in Cathy Waffel being elected commissioner. Cathy, an 11-year Norcrafter, has been an avid supporter of the Dinner Club since it started last year.

NRC BOWLING femme members recently voted in as commissioner Florence Rice, Property Accounting. Florence played softball for several years, but now lists bowling as Number one hobby. League starts September 15.

THE Northrop Scene BY DAY AND NIGHT

Tool Crib Norcrafters Conserve

VARIETY OF JOBS done in repairing and renewing tools is depicted by photo in Department 5445 tool crib. In foreground, Leadman George Baker, right, instructs Frank Thompson in the repair of wire-strippers. Directly behind them, Al Weiler repairs stop countersinks. At far end of Al's bench is Tony Rooten, repairing C-clamps of all sizes; while in left background, grinding drills, are Dot Grabau and Katherine Scites. At far end of bench on right is Fred Denison, who is shown repairing rawhide mallets. John Mattsen stands in right foreground inspecting rawhide mallets and vise grips. Mat Conned tools are again usable and immediately placed on Scorpion and Missile assembly.

STANDARD TOOLS in need of repair come from all over the plant to Tooling Machine and Die Shop. In photo are shown three of department's Norcrafters as they receive and segregate tools. From left: Fran Forsberg, Katherine Scites, and Onalee LaRoe. "Tool Traveler Envelope" routes parts.

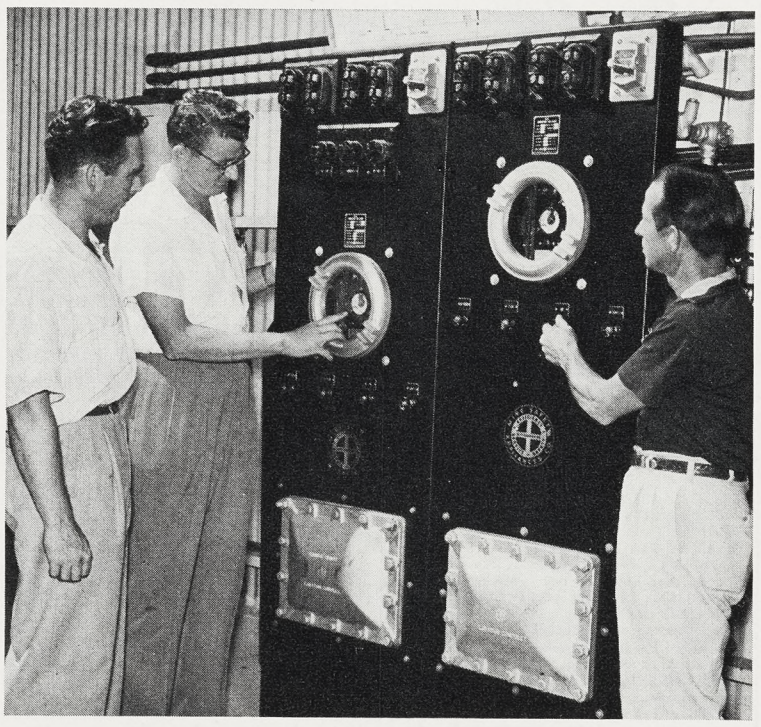
DRILLS BY THE SCORE are re-ground in Department 5445 tool crib under direction of Leadman George Baker. Grinding, at left, are Dot Grabau and Fran Forsberg; separating drills at right is Vi Jennings. A notable conservation of time and materials, the process formerly was done by outside vendors.

PORTABLE EXPLOSIMETER, or "sniffer," such as that used by Safety department personnel in checking wings for fumes, is examined by Keith Engelbart, Test Lab engineer. Behind him are 16 sniffer tubes—equivalent to 16 carried sniffers— which bring samples of air from different parts of lab for automatic, instant analysis by Combustible Gas Analyzer.

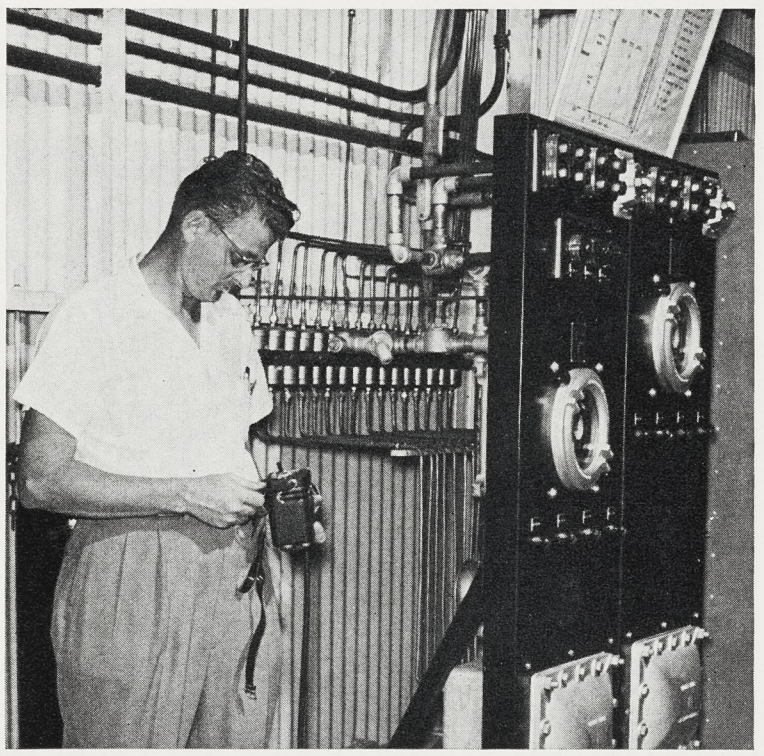
NRC Veep

NEW VEEP for NRC is Joe Carver, Major Proposals, 12-year Norcrafter, succeeding Conrad Horine, formerly of Materiel. Joe, who was president of the Flying Association and NRC Flying representative, has been a member of Northrop Recreation Club council for eight years.

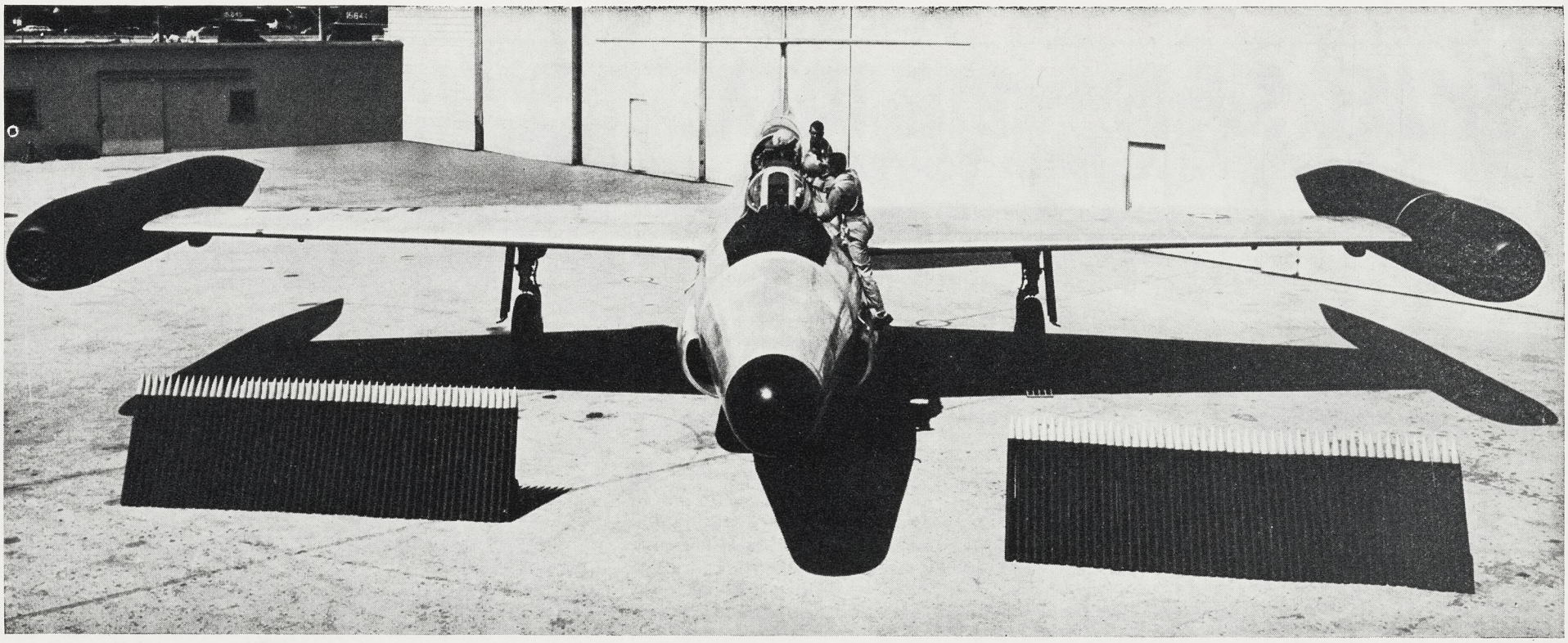
Fuel Test Sniffer



INTENTLY WATCHING DIAL for tell-tale traces of fumes in lab, Test Lab Norcrafters wait for results of test run, having placed small quantity of JP4 near sniffer tube. Watching are Assistant Supervisor Larry Pieper, Test Engineer Keith Engelbart, and Leadman Roy Anderson. When fumes register, alarm sounds and exhaust fans are cut in automatically to clear air. (See story, page 1, for details.)



SUGGESTION AWARD WINNER Virginia Otto, Customer Field Service, explains to Scott Johnson, Tech Rep supervisor, how she won $193 through Northrop Suggestion Award Plan on first suggestion submitted. Virginia's worthwhile idea was to use printed letterheads for dittoed copies instead of Northrop engraved letterhead. Idea saves $$$$.



Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California — Wednesday, September 9, 1953

SCORPION "SUNDAY PUNCH" secret was revealed last week with disclosure that mighty F-89-D carries 104 high-explosive air-to-air rockets in its streamlined wing-tip pods. Scorpion, long-known as the "Grand Slam", is the heaviest-armed fighter known to exist in the world—each of the rockets in its devastating armory is capable alone of destroying the largest bomber. The heavy artillery is aimed and controlled by automatic means.

F-89 SUNDAY PUNCH

D-SCORPION ROCKET ARMAMENT REVEALED

First public disclosure was made last week by the Air Force of the extent of the lethal power F-89 Scorpion D-series carries in its wing-tip pods.

Although Norcrafters working on the "Grand Slam" have known for some time of the Scorpion's "Sunday punch", it was not until shortly before the "D" was shown in Dayton last weekend that John Q. Citizen learned that 104 rockets—each of them capable of destroying any bomber—made up the mighty airplane's arsenal.

The high explosive, air-to-air rockets, the public came to know, are automatically fired in salvoes which fan out in overlapping patterns like huge shotgun blasts to blanket an area as large as a football field!

The announcement of the airplane's armament followed by almost exactly a year the disclosure of the purpose of the D's pods. At that time it was announced that the Scorpion was the heaviest-armed fighter known to exist in the world, but details of the armament were withheld.

The "kill probabilities" of the D-Scorpion are high in the event of combat, engineers point out, with such an extensive area covered by the rockets.

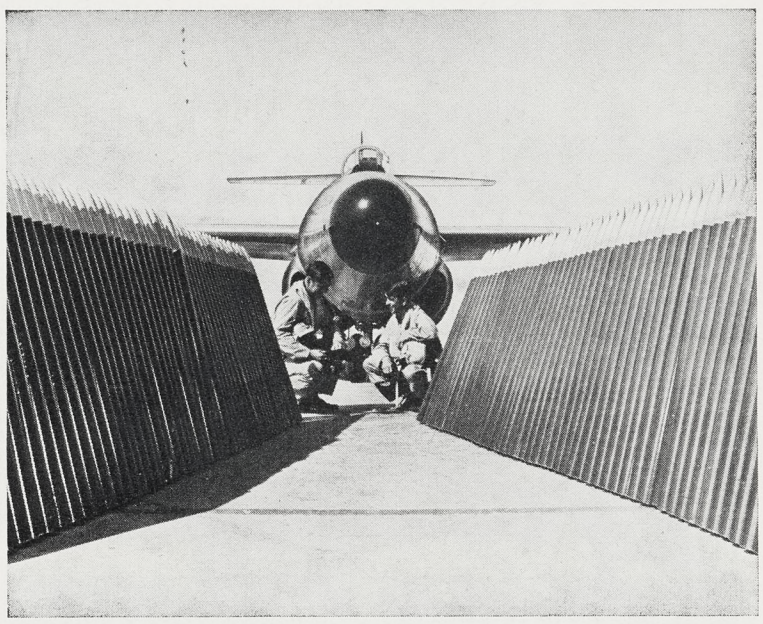
Use of the twin pods, in addition to providing greater dispersal of fire power, has other advantages, Norcrafters point out.

Not only can larger numbers of rockets be carried in the wing-tip pods, but also firing of rockets does not interfere with the vision of pilot or radar operator at the critical moment of firing.

Even more important is the fact that engine intakes are not exposed to smoke and debris produced by rocket firing.

Coupled with the F-89D's newly-announced destructive power is automatic target location and triggering radar equipment that enables the Scorpion's two-man crew to seek out and destroy aerial targets at altitudes above 45,000 feet despite darkness and inclement weather.

Delivery of the first D-series Scorpion to the Air Force at Edwards AFB was announced in the Northrop News on May 6. It marked the beginning of a steadily increasing effort to produce the heavily-armed fighter-interceptor in quantity, as the modification of earlier Scorpions increased in speed.



LETHAL LOAD OF DESTRUCTION carried by F-89 Scorpion is demonstrated by corridor of dummy rockets lined up before the airplane. The F-89D's aerial salvoes are automatically fired and fan out in a pattern that blankets an area of the sky as large as a football field. Pilots shown in front of airplane: Ray Tenhoff, Larry Rothrock. (See story at left.)

John Myers Receives Special Service Award for All-weather Fighter Work

John W. Myers, vice-president, Northrop Aircraft, was honored for his contributions to the development of night and all-weather military airplanes and tactics at the annual meeting of the Night Fighter Association in Washington, D.C., on August 22, it has been announced.

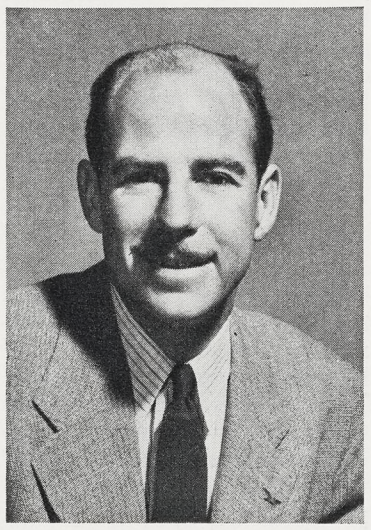
Myers received the Association's first special award for his work with Northrop Black Widow F-61s during World War II.

He pioneered in the proving of these radar-equipped fighters, which were the first U.S. airplanes built especially for night fighting and were used extensively to combat enemy bombing raids in Europe and the Pacific. Present day all-weather interceptors evolved largely from the experienced gained with them.

Myers aided in the development and testing of F-61s after he joined the company as an experimental test pilot in 1942. Because of extensive knowledge of the Black Widow, he was sent to Pacific battle areas to indoctrinate service pilots in the use of the deadly fighters.

The Night Fighter Association is composed of approximately 600 individuals who were associated with night fighter units during World War II or have seen service with all-weather airplanes. Members of NFA are also members of the Air Force Association which held its annual convention in Washington at the same time.

Officers of the group are: Brig. Gen. W. W. Kratz (Ret.), president; Major R. O. Steward, USAF, vice-president; Phillip Horrigan, Hughes Aircraft, secretary; and Gil Nettleton, Northrop, treasurer.



John W. Myers

Motor Vehicle Code for Parking Lots Adds Space

With alleviation of traffic congestion and safety of Norcrafter pedestrians and drivers uppermost in mind, Chief E. F. Burke, Plant Security and Protection, last week called for renewed attention to three long-established traffic policies at the Hawthorne plants:

A uniform parking pattern, in which all vehicles will head into parking stalls. Parking evenly between white lines is important. This standard pattern will alleviate traffic congestion when entering or leaving the areas.

A ten mile per hour speed limit through all gates, passageways, and parking lots.

Twenty miles per hour as the maximum limit on the flight field, with reduction of speed when the roadway is obstructed by proximity of airplanes.

Burke also called attention to newly-posted traffic warning signs on Broadway and Crenshaw, after noting that a number of Norcrafters had received traffic tickets. On one day alone, it was learned, the total reached 40!

Signs on Crenshaw were placed there by Los Angeles County officials and those on Broadway, between Prairie and Crenshaw, by the City of Hawthorne.

The citations were issued mainly for parking in passenger loading zones; making U-turns in posted areas; and parking in new zones marked "No Parking At Any Time."

One alleviation of the parking situation, according to Plant Engineering Norcrafters, is the 200-car parking facility now available at the former location of the Northrop Institute. (Parking here has "caught on" since details were disclosed in the Northrop News August 26, 1953; but there is room for many more vehicles.)

SMALL SUMS -- BIG TOTAL

RESEARCH, DEVELOPMENT CONTRACTS

The old saying "Many a mickle makes a muckle" proves apt when studying a recent Northrop report on the status of research and development contracts now being carried on, and those landed during the past year.

Dollar value of only the latter, ranging in scope from about $15,000 to nearly $200,000, begins to near the million mark.

Future of this type of contract is bright at Northrop, with 18 more proposals "in the mill" at present, classified as either "probable" or possible".

Search for the contracts is carried on by Engineering Norcrafters along with Russ Bowditch, Military Relations. The teams scour all possible military sources of contracts, and, after conferences, make the company's proposal on some of them which seem most likely to be the kind of work Northrop seeks.

Most of the six contracts now in force are handled by Materials and Process Engineering. Special Projects has administered two of them—namely, the Cast Magnesium Wing, Northrop "first" which has attracted a great deal of attention within the industry; and a highly classified fiberglas laminate program.

Materials and Process Engineering administered and conducted many others and gave some technical assists to Special Projects on the cast wing program.

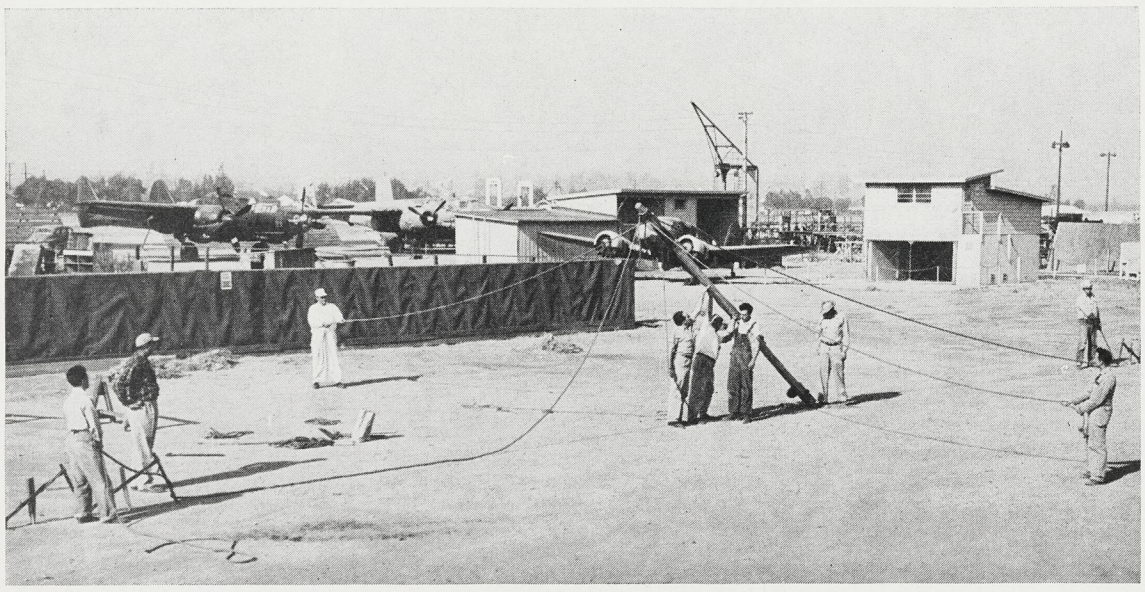
Projects already finished include a jet engine de-scaling program, which was culminated by the discovery that a little in a jet engine is beneficial rather than detrimental. A magnesium protective coating investigation was successfully concluded.

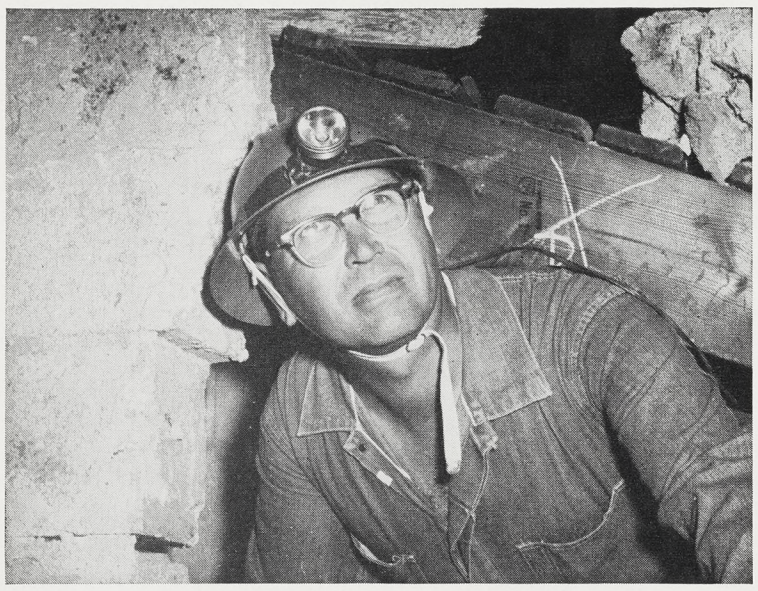
Still in force are investigations on material property criteria of large magnesium castings; zinc die substitutes, a study of die contaminants; Titanium substitution, a two phase problem—quality evaluation of steel castings; and a cast landing gear door investigation.

An invaluable feature of R&D contracts, according to Edgar Schmued, vice president, Engineering, is the fact that they not only provide an excellent source of income in the aggregate, but allow the furthering of technical knowledge at Northrop which otherwise could not be afforded.

In addition, Norcrafters involved in the R&D contracts say, the search for new contracts provides still another valuable advantage:—it allows the representatives to "keep a finger on the pulse" of aircraft activity and aircraft trends.

Specialized C-D Training





NORCRAFTER Civil Defense Rescue Service organization benefits from training received by Clarence Kruger (5152) at Federal CD school in rescue training. From left: G. A. Smyth, Kruger (instructing), W. C. Page, W. L. Capps, Leo McAbee, R. E. Bates, D. F. Judd, J. A. Chastain, and C. A. Baril. All but Kruger are in Maintenance departments.

KRUGER is shown during intensive training session, part of special course for rescue training instructors given at St. Mary's College, California, for C-D participants. Norcrafter Kruger is now imparting the knowledge gained at St. Mary's to members of Northrop C-D Rescue Service (see photo of training above).

TEAM of men burrowing through rubble shows dramatic, realistic setting of training course at St. Mary's. The training, some of best in the world, was presented under auspices of the Federal Civil Defense set-up, prepares for any emergency.

The Light Fantastic

NORCRAFTER EDDIE JOHNSON, Construction (right), is shown with champagne maestro Lawrence Welk as he receives tremendous applause for vocal rendition during Northrop party at the Aragon Ballroom. Another "Northrop Night" at the Aragon will be Saturday, September 26, and Eddie promises to be back with more songs. Free tickets that may be exchanged at Aragon box office for half-price admission are available at PA&S offices, Plants One and Three. (Photo by Tamara Andreeva, Maintenance).

TV Salutes Norcrafters And The Aircraft Industry

Achievements of the aircraft industry and the personal contributions of Norcrafters and other West Coast aircraft workers were the subjects of a special television program over station KNBH, Channel 4, Saturday morning, September 5.

The program was offered as a tribute, by KNBH and the U. S. Treasury, to the record support given the recent industry-wide bond drive to which so many Norcrafters contributed.

The telecast dramatically traced the development of military and civilian aviation over a span of 50 years; and more particularly, it told the story of aircraft production and of the skilled personnel who build the nation's strength in the air.

A later showing of the program was scheduled for later presentation. The repeat performance was made available to NBC-affiliated stations across the nation by kinescope.

ONTARIO SAFETY, CONSERVATION DEVELOPMENT

Ontario Norcrafters on Mat Con's Safety-Conservation committees have come up with a new wrinkle in their organization, Roy Wilson, acting chairman of the committee, reports.

On the first shift the committee has been divided into teams, or groups, with a senior committeeman as representative reporting the accomplishments of his group, although all members attend.

On the Ontario committee are the following Norcrafters: R. A. Billings, D. V. Blades, R. H. Chipman, M. E. Dietzel, J. L. Edwards, Bill Giles, Jean Haines, L. G. Halsey, A. J. Hutter, Frank Johnson, F. J. Kozub, E. H. Lawson, (chairman), R. E. Lierd, R. A. McCall, W. B. Maney, M. F. Muir, jr., C. B. Ross, E. B. Rowland, J. R. Secrest, R. V. Snider, R. W. Tichenor, D. A. Wires, L. R. Wilson, and N. L. Chaney.

On the night shift: F. R. Abbey, E. L. Howard, G. H. Humphrey, E. G. Ketley, C. J. Enge, L. R. Platts, and V. G. Hacker.

SEPTEMBER DATE FOR NEW MANUAL PUBLICATION

Two new Northrop publications will be issued in mid-September, according to John Van Hamersveld, supervisor, Engineering Producibility.

First of the volumes will be an Electro-Servo Standards Manual which is designed to facilitate use of standards in the comparatively new fields of electronics, servo-mechanisms, and electrical systems.

The other work is the Fluid Mechanical Standards Handbook. This is a revision of an existing list of standards set up in a more convenient indexing system.

Both publications were compiled by the Producibility Standards group.

Northrop News
Vol. 12 Northrop Field, Hawthorne, Calif. No. 4

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JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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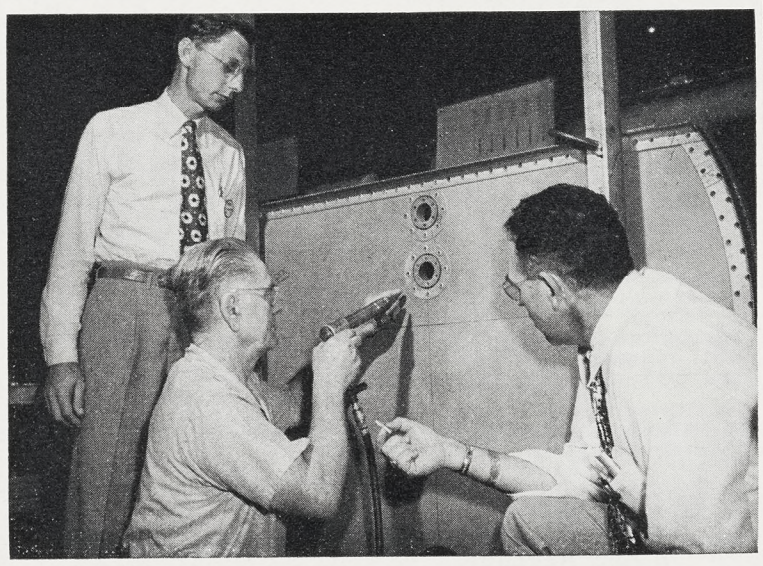
Permission to republish material with credit to the Northrop News will be granted
News office phones—2456, 2457, 2732. Outside lines—OR 8-9111, OS 6-1121.

DRESS REHEARSAL—NRC Riding Club members are shown above in uniform just prior to participation in the grand entry of the 1953 Sheriff's Rodeo. From left: Lee (Mrs. Don) Danner; Laura Vickrey, Missile Inspection; Ellen Haskell, Missile Field Test; Guy Page, Schedules & Change Control; Pamela Zarubica; J. W. "Tex" Statley, plant guard; Cliff Snudden, Missile Field Test; Rita (Mrs. J. W.) Statley; Bill Robusch, Missile Guidance; Walt McKee, Power Plant Installation; Ed Sellon, Art Service; Don Danner, Riding comish.

Norcrafter Ingenuity



MAT CON BOOST came from Orville Wine (5620), center, shown explaining his special rivet set for CVC rivets to E. F. Burgmaier, left, and Clyde Flowers, right, supervisory Norcrafters in department. Wine's suggestion cut rejections to minimum, and stepped up installation of rivets in department. Opportunities are countless for similar suggestions.

Assistance on the Road, Like Biblical Samaritan

Norcrafters who have found themselves with a flat tire and only a small pair of pliers to fix it with will appreciate the firm friendship which has sprung up between two carloads of Northrop "Share-the-ride" members.

Al Hinker, Tool Fabrication, was the unlucky motorist who discovered to his dismay that he had left all tools and his spare at home after a Sunday of hobby work. There he sat at the side of his disabled car, with Zone 8 riders Frank Thompson, Nat Williamson, and Ann Stevenson, all of Department 5445.

Help came, however, when "Men of Goodwill" Andre Guimond and Johnny Musulin, both of Tool Control, happened to drive by and see their plight.

A quick check of the automobiles showed that Andre's tire would fit Al's car—a tire changing party was held and both cars hied themselves homeward. Guimond, who shares the ride in Zone 5, feels that sharing the ride is only a part of the courtesy of the road and the Hinker riders are cheering Andre as a good samaritan.

GOOD SAMARITANS John Musulin, left, and Andre Guimond, both of Tool Control, believe in aiding fellow drivers.

NRC Ladies Presented TM Charter

The Northrop Toastmistress Club received charter No. 519 from International Toastmistress Clubs and celebrated the event with a charter dinner party.

The party was held at Ted Owens' on Thursday evening, August 20. Charter presentation was by Mrs. Ethyl Williams, advisor to the club and past ITC vice-president.

Guest speaker for the evening was John B. Clark, director of Industrial Relations, who spoke on "Applied Human Relations" as slanted toward women in industry.

Club officers were installed during the evening, including Marie Louise Sauer, president; Dorothy Culverhouse, vice-president; Rona Jefferson, secretary; Viva Murphy, treasurer; Elsie Hicks, club representative. Mrs. Dorothy Hanson, ITC director, installed the officers.

In addition to Clark, the program included club member Dorothy Culverhouse, evening's Topic Mistress, who called upon everyone present for extemporaneous comments, and club member Marjorie Perry, evening's Lexicologist.

The club's charter members include Peggy Barber, Thelma Barwick, Betty Claybaugh, Dorothy Culverhouse, Elsie Hicks, Juanita Hippler, Rona Jefferson, Lola Locke, Louise McCullough, Viva Murphy, Marjorie Perry, Barbara Pritzkat, Marie Louise Sauer, Jean Sweeny, and Elsie Williams.

CREDIT UNION IN NEW COMMITTEE APPOINTMENTS

Two new appointments have been made to the Northrop Credit Union Credit Committee, Walt Gage, manager, announces.

The new committee members are Joe A. Wenkunas, Tool Engineering, and Archie Odom, Installation Planning. They succeed Al Smith, Management Control Room, and G. A. Kelly, Customer Relations.

In addition to the new members the Credit Committee consists of J. L. Dew, chairman, Hydraulics and Plumbing; E. J. Baum, Industrial Relations; D. E. Taylor, Production Engineering; and J. E. Carver, Cost Estimating.

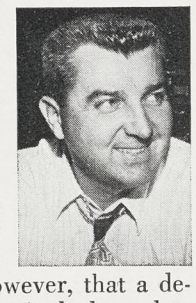
Norcrafters Pro-College In This Push-button Age

School days, school days, dear old golden school days —! Comes time again for about half the population of these United States to pick up the various types of scholastic training left off last June. But what about the expensive quest for higher learning? Do we really need it to get along in these push-button days? Inquiring reporter has asked the question —.

Lennie Renick, Patent Office: "I believe a college education is extremely valuable to a person even though he is never called upon to use the specific knowledge acquired. A very forceful reason is that by exposing oneself to a great number of varied subjects, the person is more apt to find his prime interest and thus pursue it at an early age, rather than inadvertently stumbling upon it in middle life when the preparatory time is no longer available."

Nancy Rodriguez, Loft and Template, nights: "That's odd; just today I inquired at El Camino about part-time school! If you go to college just for fun, there's no sense in going. You get from college what you put into it, and what you want to learn there. I would like to go, but don't have the time."

N. E. McGowan, Missile Liaison Engineering: "I think it's expensive. I know a lot of people who have survived without one, so I would conclude that such an education is not absolutely necessary. I definitely think, however, that a degree helps—particularly when coupled with experience."



Joan Gulizia, Personnel: "I think a college education is pretty nice . . . I have had three years in El Camino and I'm very glad. It helps a lot in obtaining a choice in jobs and is definitely to one's advantage in advancement. A college education helps to establish people as individuals. I'm all for it even if the road is a little rough."

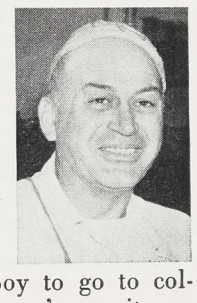
E. F. Schneider, Tool Control, nights: "I started college and quit — and I sure wish now I hadn't. I have kicked myself a thousand times for doing that. Anyone who has the chance should by all means go to college. I'm interested in night school, and hope to go when I get the chance."

Dorothy Baldwin, Contract Administration: "I think a college education is very helpful in getting ahead —both in business and in living. I have a degree in business administration, and I feel that it has helped me immeasurably to cope with problems of the business world. College is always impressive on an application blank—the person with it will have an edge over a non-college applicant."

Milton A. Dodson, Industrial Training: "A college education trains people to think. It also enlarges the horizons of human experiences and aids in avoiding many of the conflicts man meets in the commonplace. An individual can find his place in life more quickly and effectively if he has had the advantages of attending college. An education also aids a person in getting the most out of life by knowing how to put more into it."

Kathleen Smith, Plant Hospital, nights: "I think it's very important for young people now to attend college in order to get along in the world. You can hardly get a decent job unless you have at least high school—and preferably a college—education."

C. A. Skaff, Sheet Metal Fabrication, nights: "It always helps to have a college education; you have more chance for advancement. Things are always coming up that stump the average guy. I wanted my boy to go to college, but he doesn't see it my way. I think it's so easy for young fellows out of high school to make good money that they forget about college."



Marion Karow, Personnel, nights: "College is certainly worthwhile. I'd like to finish, if I could; I went to El Camino for a little while, but found that working and going to school at the same time was too much for me."

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
SUNSET BLVD. & VIRGIL or VERMONT, Los Angeles. RAYMOND M. COVERT (5585-599, Ext. 1381), NO 1-1401. (12-1-1

(Zone 4)
AVALON BLVD. & 107TH. (Would like to either ride with someone, or I will pick up some riders that live near Avalon & 107th), Los Angeles. ROSA L. HALLMAN (5585-158, Ext. 1381), PL 6-3275). (12-1-4)

FLORENCE AVE. & LAKEWOOD. (Room for 2 riders), Downey. WILMA DEVENEY (5501-133, Ext. 2200 & 1814). (12-1-4)

(Zone 11)
IMPERIAL & SEPULVEDA. (Down Imperial to Prairie to Broadway), El Segundo. FRANK L. BANNING (5585-110, Ext. 1381). (12-1-11)

(Zone 13)
VENTURA & SEPULVEDA, Sherman Oaks. DON HUISH (5553-59, Ext. 1575). (12-1-13)

BEVERLY GLEN & OLYMPIC, West Los Angeles. ADDISON J. FANCON (3410-58, Ext. 742), CR 6-3930. (1-3-13)

(Zone 14)
DOWNTOWN BURBANK. (From Tujunga to Northrop, via Glenoaks Blvd., Hollywood Way, Olive Ave., Highland & La Brea), Burbank. MARY FORD (9310-31, Ext. 692), CH 0-5641. (13-1-14)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
DOWNTOWN BURBANK. (From Tujunga to Northrop via Hollywood Way, Highland Ave. and La Brea), Burbank. MARY FORD (9310-31, Ext. 1292 and 692), CH 05641. (12-3-1)

(Zone 13)
BEVERLY GLEN & OLYMPIC, West Los Angeles. ADDISON J. FANCON (3410-58, Ext. 742), CR 6-3930. (1-3-13)

(Zone 14)
DOWNTOWN BURBANK. (From Tujunga to Northrop, via Glenoaks Blvd., Hollywood Way, Olive Ave., Highland & La Brea), Burbank. MARY FORD (9310-31, Ext. 692), CH 0-5641. (12-3-14)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 2)
WESTERN & 92ND, Los Angeles. KATHLEEN EMGE (9320-37, Ext. 2151), PL 3-6744. (13-1-2)

(Zone 6)
WARDLAW & GAVIOTA. (Would like either to ride with a pool car or will alternate using my car), Long Beach. LOUIS B. RACE (5000-17, Ext. 2118), LB 4-1327. (13-1-6)

(Zone 13)
ROSEWOOD & HARDY. (Room for 3), Inglewood. W. K. FITZGERALD (9330-13, Ext. 1471), OR 1-8610. (13-1-13)

(Zone 14)
FLORENCE AVE. & CRENSHAW BLVD., Los Angeles. CHARLOTTE WOOLUMS (9320-21, Ext. 1416-2151), PL 3-7484. (13-1-14)

CRENSHAW BLVD. & RODEO ROAD. (Arrive at Plant III in time to catch the 7:05 a.m. bus to Plant I), Los Angeles. KARROLL SHURTZ (3120-21, Ext. 1266, 1689), AX 2-3692. (13-1-14)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 14)
CRENSHAW BLVD. & RODEO ROAD. (Arrive at Plant III in time to catch the 7:05 a.m. bus to Plant I), Los Angeles. KARROLL SHURTZ (3120-21, Ext. 1266, 1689), AX 2-3692. (13-3-14)

7:30 a.m. — 5:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 10)
PROSPECT & IRENA. (Car pool preferred), Redondo Beach. VICTOR D. IGLESIAS (3310-93, Ext. 477), FR 5-5463. (14-3-10)

RIDES OFFERED

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 5)
ROSECRANS & GIBSON, Compton. WILLIAM D. McKEE (7310-277, Ext. 2227), ME 5-4279. (18-1-5)

(Zone 12)
JEFFERSON & LINCOLN HIGHWAY or JEFFERSON & SEPULVEDA or JEFFERSON & SPEEDWAY. (Via Manchester or via Lincoln Highway), Venice. MAURICE HAMMOND (5503-281, Ext. 2681). (18-1-12)

Miscellaneous (Split Shifts)
(Plants 1 and 2)
(Plant 3 and El Segundo Buildings)

TO FORT WORTH OR DALLAS. (Leaving Sept. 25 for two weeks), Redondo Beach. C. BYERS (1400-11, Ext. 1413), FR 2-2253. (20-1-3)

RIDES WANTED

6:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 14)
CENTINELA & FLORENCE, Inglewood. JOHN TOURINO (5515-83, Ext. 1232). (1-3-14)

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
WILSHIRE & VERMONT. (Also Olympic & Vermont), Los Angeles. CHARLES M. CARRON (5373-184, Ext. 1243), DU 2-9480. (2-1-1)

(Zone 2)
CENTURY & WESTERN or CENTURY & NORMANDIE, Los Angeles. JACQUELINE BEAMES (5352-69, Ext. 1731-2382), PL 5-1426. (2-1-2)

(Zone 4)
AVALON BLVD. & 107TH. (Would like to either ride with someone, or I will pick up some riders that live near Avalon & 107th), Los Angeles. ROSA L. HALLMAN (5585-158, Ext. 1381), PL 6-3275. (2-1-4)

(Zone 5)
ROSECRANS & VERMONT, Gardena. CLEMENS HARTMAN (5161-92, Ext. 548), ME 4-7832. (2-1-5)

CLARK & CARSON, Lakewood. GARY PROUT (5508-199, Ext. 2327), LB 5-3703). (2-1-5)

(Zone 7)
NORMANDIE AVE. & 182ND ST., Gardena. E. M. LEE (5503-352, Ext. 2467), ME 4-4051. (3-1-7)

(Zone 9)
CRENSHAW or HAWTHORNE BLVD. & HIGHWAY 101, Torrance. MARGARET WILSON (5373-104, Ext. 1378 or 1272). (2-1-9)

PROSPECT & TULITA. (Will ride or share ride), Redondo Beach. REX GAMBLE (5233-27, Ext. 1456), FR 5-5782. (2-1-9)

(Zone 10)
HERMOSA AVE. & 4TH COURT or PIER AVE. & HERMOSA AVE., Hermosa Beach. RUTH E. IRWIN (5351-51, Ext. 2582), FR 2-2850. (2-1-10)

SEPULVEDA & 2ND STREET. (Ride home only), Manhattan Beach. VIOLA BRUNK (7210-39, Ext. 2206), FR 9-3097. (2-1-10)

VINCENT & LUCIA or EMERALD & LUCIA, Redondo Beach. ELEANOR LYNCH (5585-25, Ext. 1382), FR 2-5646. (2-1-10)

(Zone 11)
FELTON AVE. & 118TH ST., Hawthorne. LORENE H. CASTLE (5521-12, Ext. 2242), OS 6-6604. (2-1-11)

(Zone 13)
BEVERLY GLEN & OLYMPIC, West Los Angeles. ADDISON J. FANCON (3410-58, Ext. 742), CR 6-3930. 2-12-13

VENTURA & SEPULVEDA, Sherman Oaks. DON HUISH (5553-59, Ext. 1575). (2-1-13)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
EL SEGUNDO & WILMINGTON, Willowbrook. JAMES FRANK CARMICHAEL (5162-365, Ext. 1821), NE 1-9407. (2-3-5)

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 10)
INGLEWOOD & ROSECRANS, Lawndale. JERI KIRKBY (5351-46, Ext. 2582), OS 5-1436. (2-3-10)

(Zone 13)
PRAIRIE & 112TH ST., Hawthorne. ANNA M. DIMINICK (5508-152, Ext. 620).

BEVERLY GLEN & OLYMPIC, West Los Angeles. ADDISON J. FANCON (3410-58, Ext. 742), CR 6-3930. (1-3-13)

(Zone 14)
CENTINELA & FLORENCE, Inglewood. JOHN TOURINO (5515-83, Ext. 1232).

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 2)
MANCHESTER & WESTERN, Los Angeles. GEN. LEES (4230-13, Ext. 631), PL 1-6842. (3-1-2)

HOOVER & W. 60TH, Los Angeles. ARLENE RAINA (5100-26, Ext. 469).

RAMONA FREEWAY & FREMONT AVE., Alhambra. CAROL WATSON (5240-14, Ext. 2455). (3-1-2)

(Zone 5)
COMPTON & WILMINGTON. (Ride needed immediately. Call after 5 p.m.), Compton. DOROTHY BROWN (9330-48, Ext. 1471), NE 22632. (3-1-5)

(Zone 6)
WARDLAW & GAVIOTA. (Would like either to ride with a pool car or will alternate using my car), Long Beach. LOUIS B. RACE (5000-17, Ext. 2118), LB 4-1327. (3-1-6)

(Zone 8)
CRENSHAW BLVD. & 174TH, Torrance. PATTI M. BUELL (1410-30, Ext. 1442).

(Zone 9)
PRAIRIE & 147TH, Hawthorne. CAROL ERZNOZNIK (9380-11, Ext. 2747), OS 6-9222. (3-1-9)

COMPTON & PRAIRIE, Hawthorne. CLARENCE SARRAIL (5338-35, Ext. 636 or 2145). (3-1-9)

(Zone 10)
MANHATTAN AVE. & 8TH ST., Hermosa Beach. MARJORIE BACKER (5230-11, Ext. 793), FR 4-9894. (3-1-10)

(Zone 13)
PRAIRIE & 107TH, Inglewood. JUNE McDONALD (4220-71, Ext. 1452), OR 8890. (3-1-13)

HIGHLAND & MELROSE, Hollywood. ROSE RICHKIND (AF, Ext. 1965), HE 2421. (3-1-14)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 4)
IMPERIAL & VERMONT, Los Angeles. BARBARA TAYLOR (8330-813, Ext. 2011-12), PL 6-3386. (3-3-4)

(Zone 13)
YUKON & IMPERIAL, Inglewood. IRENE A. BECK (8330-818, Ext. 50), OS 5-1457.

WILSHIRE & WESTHOLME, HILGARD & WESTHOLME or WILSHIRE & WESTWOOD BLVD., Westwood. MARGARET WOODWARD (8320-74, Ext. 201 (13, 14, 15). AR 9-8549. (3-3-13)

7:30 a.m. — 5:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 10)
PROSPECT & IRENA. (Car pool preferred), Redondo Beach. VICTOR D. IGLESIAS (3310-93, Ext. 477), FR 5-5463. (4-3-10)

8:00 a.m. — 4:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 14)
CRENSHAW & MANCHESTER, Inglewood. MARIAN H. WEAVER (1435-30, Ext. 2761). (5-3-14)

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 13)
LA BREA & FAIRVIEW or WEST BLVD. & FAIRVIEW, Inglewood. CHERIE HAMMONS (5400-211, Ext. 1510), OR 1-1113.

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 2)
ADAMS BLVD. & CENTRAL AVE., Los Angeles. DEBORAH LEWIS (5503-454, Ext. 2681), AD 0868. (8-1-2)

(Zone 6)
NORMANDIE & 158TH ST., Gardena. MARY JEAN HANGSLEBEN (5100-214, Ext. 1475 or 1904), ME 4-6519.

(Zone 12)
SEPULVEDA & CENTURY, Los Angeles. A. C. MALM (5501-245, Ext. 2200), OR 1-8356. (8-1-12)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 5)
ROSECRANS & GIBSON, Compton. WILLIAM D. McKEE (7310-277, Ext. 2227), NE 5-4279. (8-1-5)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 7)
WESTERN AVE. & COMPTON BLVD. (Need transportation by September 7), Gardena. ALICE MORTON (5621-251, Ext. 2649), ME 4-1097. (8-3-7)

Echoes of Another Day

ROARING TWENTIES is theme of the September 14 Women's NRC Dinner Club meet. Cathy Waffel, comish (left), and Beverly Larson, hostess-of-the-month, dressed in their "Sunday Best", indicate a gay evening is in store. "Flappers" will assemble at NRC Clubhouse at 7:30 p.m. Ladies are invited to bring friends. Call PA&S, station 637, for reservations. Cost for the evening is $1.85 per person.

RIDES WANTED

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 12)
CENTURY & INGLEWOOD, Inglewood. LINDLEY DOBBIN (5509-425, Ext. 2075).

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 9)
COMPTON & PRAIRIE. (Hours 4 to 12:30), Hawthorne. LAJENNE M. DUKES (4100-215, Ext. 2331). (10-1-9)

Lynwood

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 4)
VERMONT & IMPERIAL HIGHWAY, Los Angeles. LESTER DICKSON (6100-20, Ext. 115). (12-Lynwood-4)

RIDES WANTED

7:00 a.m. — 3:45 p.m.

(Zone 4)
VERMONT & IMPERIAL HIGHWAY, Los Angeles. LESTER DICKSON (6100-20, Ext. 115). (2-Lynwood-4)

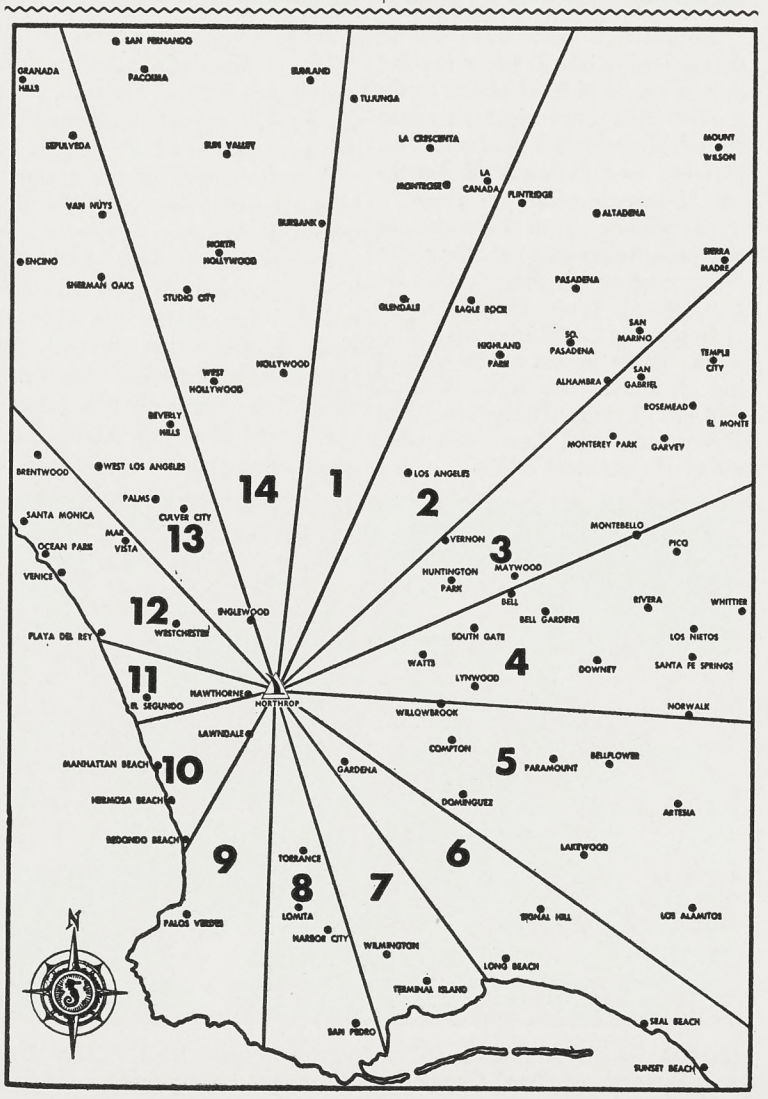
AMERICAN LOOP TITLE PLAYOFF THURSDAY NIGHT

The American League of NRC Softball has finished league play and the play-off game between Departments 5620 and 5587 is scheduled for tomorrow night, Thursday, September 10, 6:00 p.m.

Norcrafters are invited to come out to Vermont and Rosecrans Playground and see softball at its best when pitchers Tommy White and Jack Jones tangle.

In the National League, with less than two weeks of league play, eight teams are in contention for the play-off game.

Black Bat tournament will get under way as soon as both leagues have completed play-offs, dates to be announced.



SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below, call or contact Personnel Activities and Services, Plant One, 637; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BALLROOM INSTRUCTION
Discontinued for balance of summer. Watch for new starting date.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily, Conference room 1-5 11:00 a.m. lunch period. Plant III 12:15 p.m. Conference Rm. 5.

BOAT CLUB
Harold Senter, commissioner
Next meeting Monday Oct. 5, 7:30 p.m., NRC Clubhouse. Discussion on navigation, small boat handling and operation of Radio direction finder.

BOWLING (DAYS)
Chuck Carson, commissioner
Winter Leagues forming. Entry forms available at PA&S, Plants I & III.

BOWLING (Nights)
Tony Cardoza, act. commissioner
Winter Leagues forming. Entry forms available at PA&S, Plants I & III.

BRIDGE
Bill Close, acting commissioner
Meet first and third Tuesdays each month, 7:30 p.m., NRC Clubhouse.

CAMERA CLUB (DAYS)
Walt Darby, commissioner
Meet NRC Clubhouse annex, next Friday, Sept. 11.

CAMERA CLUB (NIGHTS)
Adam Slusarz, acting commissioner
Meet every other Saturday, NRC Clubhouse Annex. Next meeting Sept. 12, 8:00 p.m. Equipment demonstration. Bring cameras. Also darkroom demonstration in lab routine & enlarging.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

FENCING CLUB
Ray Beste, acting commissioner
Fencing club forming teams for local competition. Call PA&S for dates.

FISHING (DAYS)
Hal Hathorne, commissioner
Next cruise of the month Saturday, Sept. 12, the "Ino." Make reservations at PA&S.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Room. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (DAYS)
Jim Milne, commissioner
Annual open Golf Tournament Sept. 13th and Sept. 27th.

GOLF CLUB (NIGHTS)
Bill Levens, commissioner
Meet every Thurs., 8:30 a.m. Fox Hills Country Club. 36-Hole Medal Play for the Swing Shift Golf Championship, Sept. 24 & Oct. 1st. All entries must have established handicap.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m., 1016 No. Market St., Inglewood. Sunday, 9:00 a.m. to 12:00 noon.

PHILATELIC CIUB
George Borton, commissioner
Philatelic & Numismatic combined club meets 2nd & 4th Mondays each month, NRC Clubhouse, 7:30 p.m.

RIDING CLUB
Don Danner, commissioner
Next ride Sunday, Sept. 13, 7:30 a.m. Circle Bar Ranch. Reservations must be in by Sept. 10.

SEA SCOUTS
Frank Ziegler, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Sept. 19. Members interested in reloading ammunition meet at the NRC Clubhouse Mon. Eves.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Sept. 25, NRC Clubhouse Board Room.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse.

SQUARE DANCING
David Dyer, commissioner
Beginners' refresher course starting Sunday, Sept. 13. Meet every Sunday thereafter from 7:00 to 10:00 p.m.

SURF FISHING
Ted Griswold, acting commissioner
Meet last Thursday each month, 7:30 p.m., NRC Clubhouse. Next meeting Sept. 29.

TOASTMASTERS (DAYS)
Jack Akin, representative
Meet every Thursday 6:30 p.m. at the Western Club, 15516 So. Western, Gardena.

TOASTMASTERS (NIGHTS)
Merle Childress, acting commissioner
Meet Thursdays, 12:00 noon. Western Club, 15516 So. Western, Gardena. Gardena.

TRAILER
All interested Norcrafters submit name, department, and clock number to PA&S.

TROPICAL FISH CLUB
Les Squires, acting commissioner
Meet last Wednesday each month., NRC Clubhouse.

No Fairer Diamond Combo

NORTHROP GIRLS' NINE—Softballers from left, front row, are: Donna Avazian, Production Development Laboratories; Barbara Fitzgerald, Accounts Payable; Betty Talley, Assembly Stores. Standing: Reesie Counsell, Fabrication Control; Rita Held, Engineering Services; Betty Powell, Personnel; Audrey Churchill; Edna Knight, Tabulating; Commissioner Bess Gherna, Assembly Stores; Sharlene Obresley, June McMullen, Pat Crookston, Blueprint Control. Girls took third in LA City League; have since season ended beaten the league's first and second place teams in practice games. Girls go for top next year.

NRC Golf Club Provides Handy Handicap Hints

To help NRC Golf Club members and all Norcrafter golf enthusiasts in checking and recording their own handicaps, printed below are the Differential Handicap Procedure and the Differential Chart.

The system has been adopted by the Southern California Golf Association and will be used in all NRC-sponsored golf events.

SOUTHERN CALIFORNIA GOLF ASSOCIATION

DIFFERENTIAL HANDICAP PROCEDURE
Adopted January 31, 1953
by the United States Golf Association
Also Northern California Golf Association and California Golf Association

Viz.	Score	95
	Rating	—72
	Differential	23

A plan designed to streamline and simplify handicap computation which broadens the scope of handicapping and produces similar results to our former method with a condensed chart that covers all course ratings. (See chart).

Keep a record of all of your gross scores at your home club and every other course you play.

Every course is rated according to difficulty.

The rating should be posted in a conspicuous place at the handicap board and printed on score cards.

Every golfer should be handicap-conscious, handicapwise, and interested in knowing his average score, differential and resulting handicap.

Follow this simple method of handicap computation:

Handicaps shall be revised once each month.

List the name of course and date played in space provided.

List all of your scores.

List all of your course ratings.

Deduct the course rating from your score. The result is your differential.

The average of your differentials will determine both your current and basic handicaps.

U.S.G.A. CURRENT HANDICAP PROCEDURE

Total the lowest 10 of the last 15 differentials. Point off one digit to obtain average differential. Where less than 15 differentials are listed, delete the 5 highest and use the average of remaining differentials. Refer to differential chart for handicap.

Originated and developed by
Thomas G. McMahon
Courtesy Chicago District
Golf Association
Copyright 1953

DIFFERENTIAL CHART
COVERS ALL COURSE RATINGS

This term is used for handicapping in golf to signify the difference between the 18 hole score and the course rating.

Viz.	Score	95
	Rating	—72
	Differential	23

Average Differentials	S.C.G.A Current Handicap
—5.6 to —4.4	+3
—4.3 to —3.2	+2
—3.1 to —1.9	+1
—1.8 to — .7	0
— .6 to + .6	1
+ .7 to +1.8	2
1.9 to 3.1	3
3.2 to 4.3	4
4.4 to 5.6	5
5.7 to 6.8	6
6.9 to 8.1	7
8.2 to 9.3	8
9.4 to 10.6	9
10.7 to 11.8	10
11.9 to 13.1	11
13.2 to 14.3	12
14.4 to 15.6	13
15.7 to 16.8	14
16.9 to 18.1	15
18.2 to 19.3	16
19.4 to 20.6	17
20.7 to 21.8	18
21.9 to 23.1	19
23.2 to 24.3	20
24.4 to 25.6	21
25.7 to 26.8	22
26.9 to 28.1	23
28.2 to 29.3	24
29.4 to 30.6	25
30.7 to 31.8	26
31.9 to 33.1	27
33.2 to 34.3	28
34.4 to 35.6	29
35.7 to 36.8	30
36.9 to 38.1	31
38.2 to 39.3	32
39.4 to 40.6	33
40.7 to 41.8	34
41.9 to 43.1	35
43.2 to 44.3	36

The foregoing method of golf handicapping has been adopted by the U.S.G.A. as national uniform handicap procedure.

Pin Buster Winner List Is Revealed

Winners of the NRC Bowling summer leagues, as announced by Commissioner Chuck Carson (days) were as follows:

Men's 510 Scratch Trio—Wes Carr, Bob Pruess and Al Throckmorton.

Monday Night Mixed Trio—Kay Clark, Buck Clark and Harty Stjern.

Tuesday Night Mixed Four—Shirley Simpson, Emily Slocum, Ray Slocum and Jocko Hay.

Wednesday Night Mixed Five—Ruth Wallace, Betty Rice, Zip Kennedy, Phil Reeder and Andy Anderson.

Finance Mixed Five — Iola Kurtzweil, George Kurtzweil, Gene Swihart, George Gillett and Rose Neal.

Monday Night Mixed Five—John Lowry, Jerry Middleton, Lois Gamradt, Connie Cordil and Al Throckmorton.

Tuesday Night Mixed Five—Orr Brenner, Lois Woods, Jean Paavola, Ralph Jensen and Tom Kennedy.

NRC GUN CLUB REACTIVATION IS ANNOUNCED

All Norcrafters and their husbands or wives are invited to participate in the newly reactivated NRC Gun Club, reports Dick Wood, acting commissioner.

There was a good attendance and lots of interest shown at the club's first meeting held last week.

The Gun Club is now forming rifle and pistol teams. Next meeting of the group will be Tuesday, September 15, 7:30 p.m., at NRC Clubhouse. For further information call PA&S extension 637.

U. S. Navy Plays Host To Mariners

By Joe Cribbs
President
Northrop Recreation Club

Although vacation haunts have called many Norcrafters in the past few weeks, NRC members have not been idle. Witness the efforts of the Mariners:

The gals were the guests of the U. S. Navy on board the light cruiser USS Manchester, holder of eight of the nine battle stars awarded during the Korean war. The teen-age daughters of Norcrafters, ably shepherded by May Hawkins, toured the ship when it returned to Long Beach from its third tour of battle zone duty.

The gals were scheduled to have a booth at the Lawndale Optimist Club's yearly "Pirate Days" celebration this past weekend, too; they won second prize in 1952 . . . .

* * *

Personal aside: Tony Cardoza, night shift acting comish for Bowling, was looking for a super-Hitching Post feature the other day to use as a vehicle to announce his silver wedding anniversary on September 10 . . . .

* * *

To new Norcrafters: there are a multitude of activities represented by the Good Time Table and the Exclusively for The Ladies columns in this issue . . . . If you don't see the activity you're interested in, call PA&S, Ext. 637, and ask about it . . . . chances are there is someone in the plants also interested—you might get together.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 637. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BOWLING
Florence Rice, commissioner
Winter Leagues now forming. All ladies interested please contact PA&S.

DINNER CLUB
Cathy Waffel, commissioner
Next meeting Sept. 14th. Interested ladies please contact PA&S.

FLOWER CLUB
Mary Nelson, acting commissioner
Meet first and third Tues. of each month. NRC Clubhouse, 7:30 p.m. New members welcome.

INTERIOR DECORATING
Donna Pratt, acting commissioner
Meet every Thurs., 7:30 p.m., NRC Clubhouse. Upholstery instruction provided. Everyone welcome.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m. NRC Clubhouse. Instruction provided.

MARINERS
SENIOR GIRL SCOUT TROOP
May Hawkins
Swimming, boating and seamanship. Meet Thursday 7:00 p.m. Scout cabin, 135 Grevilla, Hawthorne.

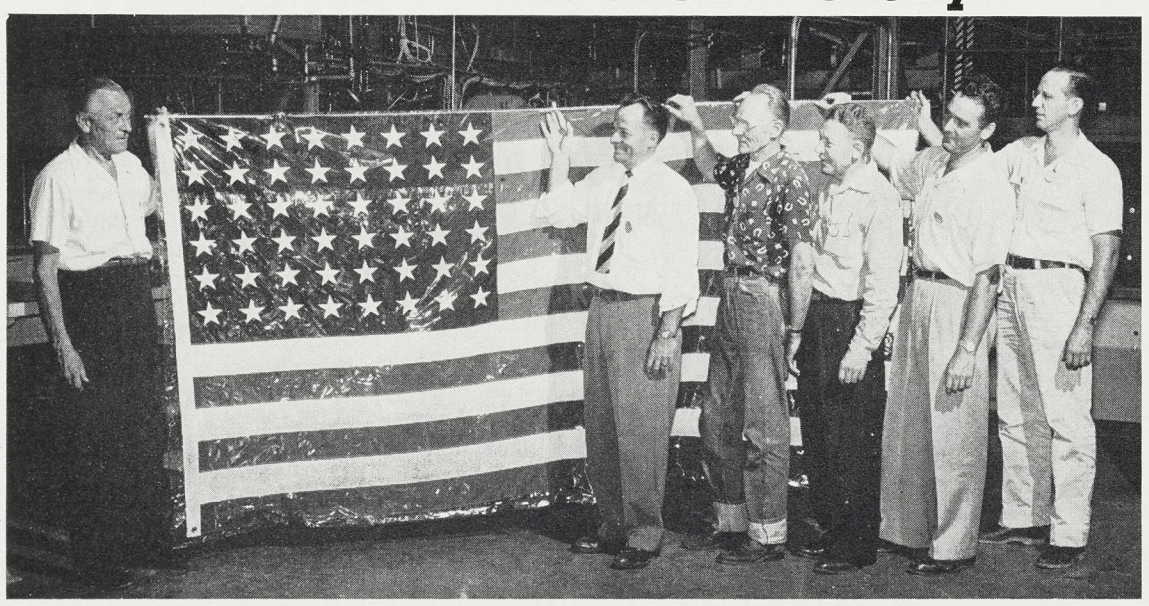
SLIM 'N TRIM
Dorine Benkendorfer, acting commissioner
Meet every Monday, 7:30 p.m., NRC Clubhouse.

SOFTBALL
Bess Gherna, commissioner
League ended. Practice games still scheduled.

TOASTMISTRESS
Marie L. Sauer, representative
Meet first and third Thursday, NRC Clubhouse. 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

THE Northrop Scene BY DAY AND NIGHT

Test Lab Flies Old Glory



NEW AMERICAN FLAG hangs over Norcrafters in Test Lab as result of the efforts of Fred Tiedemann, left, shown presenting Old Glory to department representatives. Flag was gift of Hollywood American Legion Post 43 via Fred, who states aim is to foster and perpetuate Americanism. Accepting: Chuck Shelly, supervisor; department Norcrafters L. O. Kimball, Art Faist, Larry Pieper (assistant supervisor), and L. P. Goltra. Fred expressed gratification at enthusiasm which greeted coming of flag: "It felt good to see the warm, hearty reception." Flag is covered by plastic jacket to protect it from wear.

Knitting Honors

NRC KNITTING CLUB'S booth, entered in the recent Inglewood Community Fair at Hollywood Park, brought home more than its share of prizes—two firsts, three seconds and two thirds. Commissioner Nina Shannon (left) and Hally Duckworth are all smiles as they hear the good news. Club meets on Wednesdays, 7:30 p.m., at the NRC Clubhouse.

Super Catches

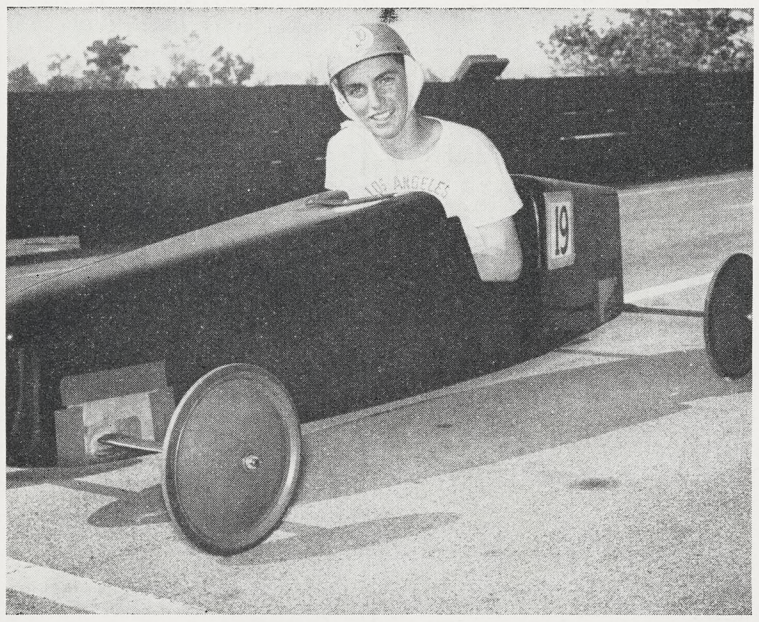
MEMORY OF THESE beauties will be a long time dimming for Irene Pelot, Purchasing, and her husband, Bill. Caught off Acapulco, one was eight feet, three inches, and weighed 106 pounds. The other, nine feet, two inches, weighed 110 pounds of fight and fury.

NRC JULY WINNER for biggest fish was Ray Ashby, left, ex-Surf Fishing Club comish, for bat ray weighing 90 pounds. John Pawlicki, Inspection, shown with Ray, caught the 74- and 40-pounders shown. Catch was made surf-fishing near Seal Beach.

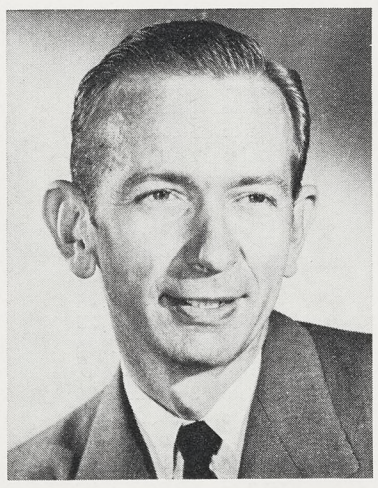
Rather Fly Than Drive

SURFACE TRAVEL is more hazardous than trips by air, states David Bean, lead liaison engineer, who with his wife recently completed a 6000-mile jaunt to visit relatives near Springfield, Massachusetts. Trip in family Swift monoplane included flying through canyons, around thunderheads, and rainy-day landings. When interviewed Bean averred, "I'll take instrument flying in preference to Sunday drivers."

Derby Crown



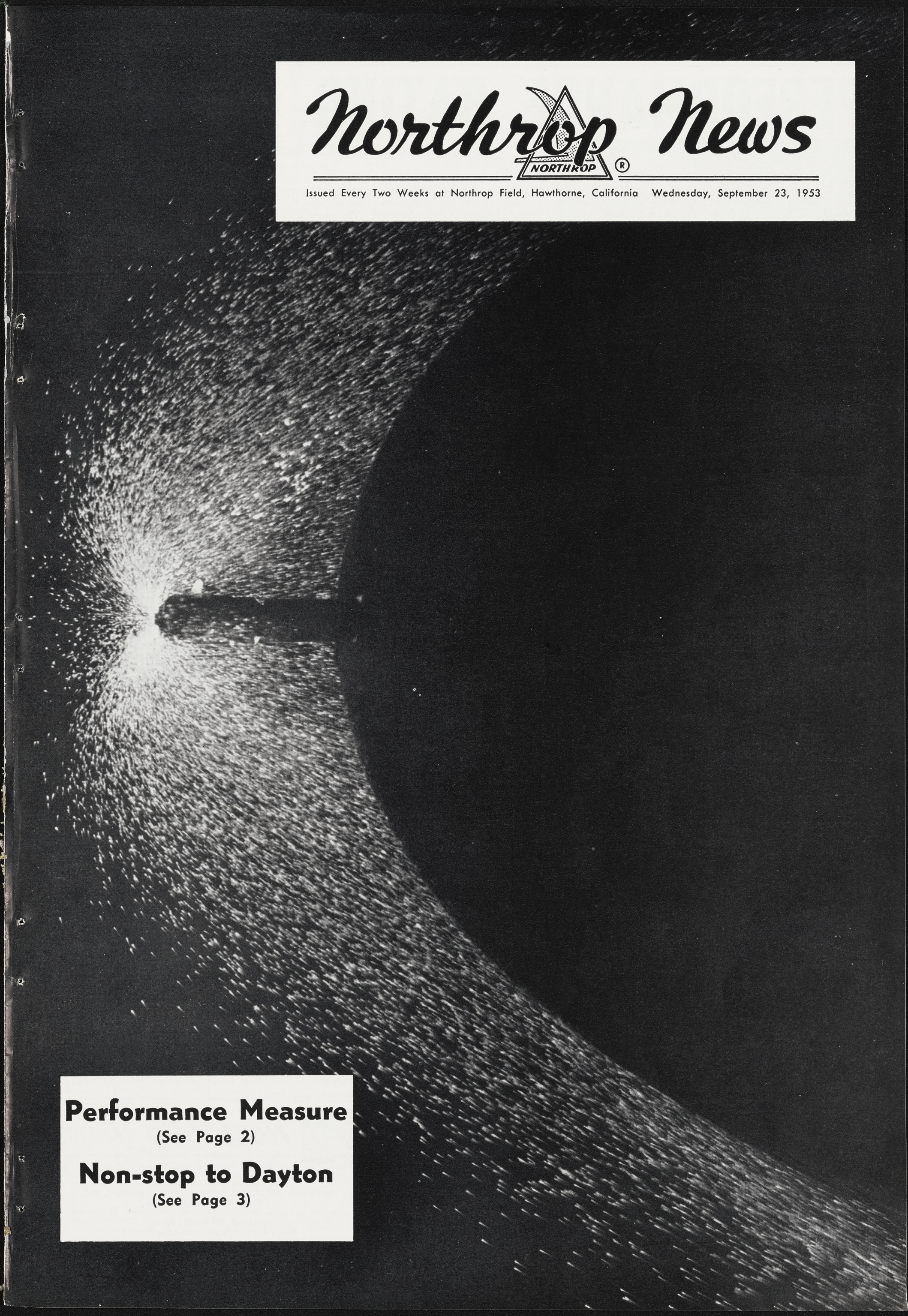
THE WINNER of the Los Angeles Suburban division of the Soap Box Derby, Ronald Ford, son of Norcrafter Art Ford, crossed finish line in 23:29 seconds in his black Sabre racer. Ronald was awarded free trip to Akron, Ohio, to compete in national championship event where he placed third in nation. This was Ronnie's third crack at the Akron trip; he was nosed out in the finals last year. Congratulations!



PROUD FATHER of Soap Box Derby champ is Frederick "Art" Ford, Analytical Engineering. Another son, Wayne, 9, will be in future contests, if Ronald has his say. Fine showing should inspire him.

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, September 23, 1953



Performance Measure

(See Page 2)

Non-stop to Dayton

(See Page 3)

PERFORMANCE RATING PROGRAM

MORE AIR FORCE PER DOLLAR IS PRIMARY AIM

PERFORMANCE COMPETITION plan is explained to group which furnishes attendance reports by Ron Hall, center, who devised plan. From left: G. C. Jacobs and Diane Stahl, Tool Budgets; Hall; Polly Middleton, Materiel; and Niels Bertelsen, Manufacturing Control. Charts in background will show performance of Manufacturing and Materiel departments in various categories, plus overall standing. (See story, right.) Individual elements of plan are not new.

PRIMARY ELEMENT on which direct departments are judged in Performance Competition plan is Direct Labor Efficiency. Figures for standings come from groups such as this, which includes Bob Harberson, Forecasting; Dick Chatterton and Clayt Fullenwider, Performance Reports; and Harlan Oliver, Time Standards and Method Analysis. Figures go on charts which show department standing.

A new "Performance Competition" program—first of its kind in the industry (although composed of elements long practiced here)—was announced last week by Kenneth P. Bowen, vice-president in charge of Manufacturing and Materiel. The plan will apply to all departments—both direct and indirect—in those divisions.

Devised by Ron Hall, executive assistant to Bowen, the plan will measure the performance of participating departments according to several criteria, all of which have been measured for years, but which now are combined to present an overall performance picture.

Competition for top standing is expected to be keen, as Norcrafters try to put their own departments on top of the heap.

Aim of the plan, Bowen told the News, is "to give the Air Force more *pounds* per dollar, with consistently high quality—the Northrop interpretation of the official slogan: 'More Air Force per dollar'."

DEFENSE PLAN

"All Norcrafters are aware," Bowen continued, "from reading Secretary of Defense C. E. Wilson's recent comments, that cost reduction and cost control are of utmost importance in the defense plan.

"The Performance Competition program is only another facet of the company's continued efforts to assume its share of the industry's responsibility to reduce the cost of the nation's defense program."

The spirit of the program is not new, Bowen pointed out. but is a tried and proven industrial philosophy by which personnel can evaluate their accomplishments against pre-determined standards.

Hall explained the operation of the plan at several meetings of supervisory personnel. The summary of performance is based on study of results in seven aspects of a direct department's operations, and in four elements for indirect.

The seven, already well-known classifications under which operations of direct departments are judged are: direct labor efficiency; schedule compliance; quality; good housekeeping; indirect salaries and wages; attendance; and safety. Indirect departments are measured by the last four criteria.

As reports on performance flow in to the Manufacturing office, Hall stated, they are transferred into easily-readable chart form. Each element is represented by a small chart; a large one at the top of the form shows the overall standing.

Par for the course—or 100 per cent performance—is 1000 points, with the individual categories of varying importance in the total.

HANG CHARTS

In commenting on the charts, Bowen remarked, "I think all Norcrafters will be proud of their departments' performance. We will hang one of these charts in each department, so our personnel can show visitors where we stand."

Information is supplied by a great number of Norcrafters from various departments. The reports which comprise the information have been part of the two divisions' operations for some time.

In departments reporting to Factory Manager C. B. Spencer, for example, there are several control rooms containing detailed charts and data measuring the departments' performance.

Regular meetings of the departments' supervisory and leadman personnel are held in these control rooms to discuss performance. This procedure has been instrumental in increasing the efficiency of those departments.

EFFICIENCY

In compiling the standings of each department in "Direct Labor Efficiency," first of the elements for direct departments, standards are supplied by Norcrafters in the Manufacturing Hours Control and Tooling Forecast sections under Tom McCarthy.

"Schedule Compliance" figures come from records kept by personnel under Don McNeal, Manufacturing Control. Lou Holmes, Manufacturing staff office, and R. S. Catlin, director, Quality Control, are further developing criteria to be used in calculating "Quality" performance.

Inclusion of the Good Housekeeping classification in the plan is expected to spur the keen competition already in effect in Spencer's departments. Indirect department surveys will be intensified.

Standards by which performance is measured in the Indirect Salaries and Wages element of the plan have been researched and developed with the cooperation of Cost and Budget Administration personnel under Jack Gorman and Frank Spriggs.

ATTENDANCE

For attendance figures Hall and his crew rely on two sources: —direct and indirect labor reports furnished by the Personnel department, and the absentee records kept by individual department clerks.

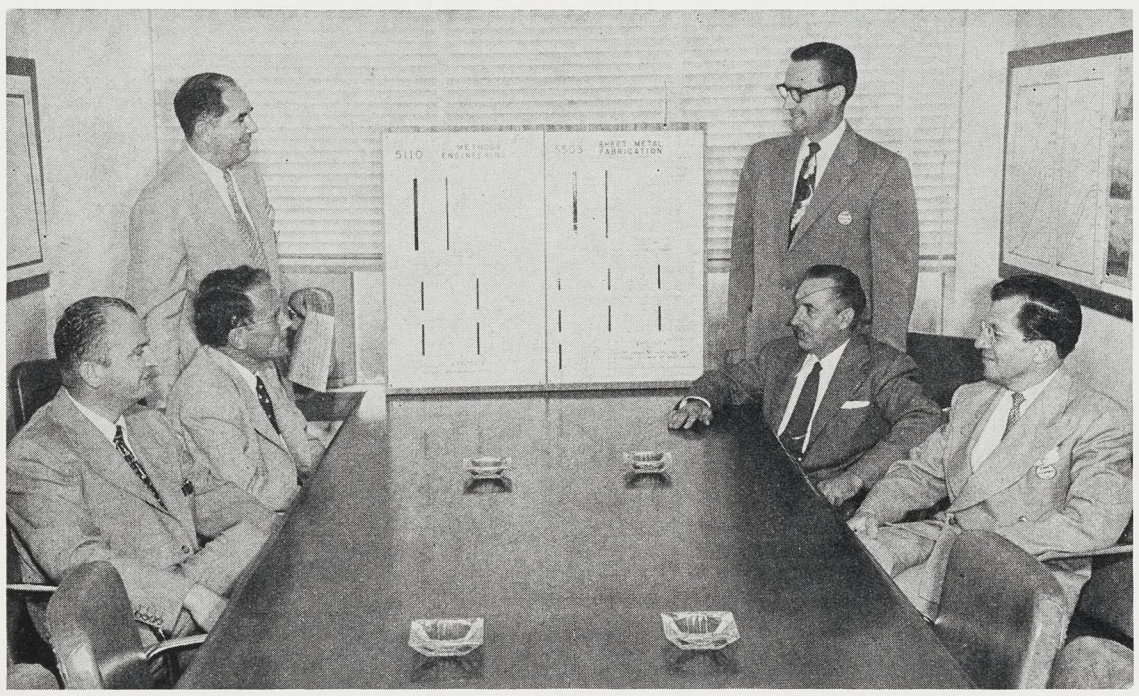
Another well-established program—that of Safety—will be included in the standards, with performance being measured from reports supplied monthly by the Safety department.

(The safety program, with grass-roots assistance from Safety-Conservation committeemen, last year won the company top honors in the National Safety Council competition among airframe manufacturers).

Hall, who administers the plan, is a relatively new Norcrafter who joined the Manufacturing staff in January of this year. As a management consultant and industrial engineer, he previously helped to install performance rating plans in a number of top industries throughout the country.

One of the slogans appearing on August charts now being prepared aptly expresses one of the primary aims of the program. It says:

"Quality cannot be *inspected* into a product—it must be *built* in."



REVIEW OF PERFORMANCE Competition Program in Vice-President Kenneth P. Bowen's conference room, with Bowen, standing left, about to introduce Ron Hall, standing right, who devised plan. Awaiting discussion are, from left, seated: R. A. Hall, chief, Electro-Mechanical Labs; Jack Hinchliffe, manager, Materiel; C. B. Spencer, Factory manager; and B. R. Bonnett, manager, Industrial and Plant Engineering. Bowen pointed out that elements included in plan are not new, but have been practiced individually for several years . . . and are now combined in plan for easy measurement of department performance.

CLERKS LINE UP DEPARTMENT HOP AT PALLADIUM

Saturday, October 3, is the date that Northrop department clerks and their husbands or wives and friends will get together for a big evening at the Hollywood Palladium.

That "Young Man With a Horn", Ray Anthony, and his orchestra will furnish the music for dancing.

All Norcrafters are invited to come along for the party and join in the fun. Tickets are available at Personnel Activities and Services, Plants One and Three, or from department clerks, all plants. Tariff for the evening of dinner (served from 7:30 to 9:30 p.m.) and dancing is $3.45 per person; however, for dancing only the price is 70c.

Word is—get your tickets early!

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INDUSTRIAL RELATIONS DIVISION, NORTHROP AIRCRAFT, INC.
JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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F-89 IN NON-STOP FLIGHT TO DAYTON

LONG HOP DISPLAYS RANGE

Unheralded by the press and working with no fanfare a small group of Norcrafters at Edwards AFB on Labor day cheered the early morning take-off of two Northrop pilots who went on to win fame for the sturdy Northrop Scorpion in a non-stop flight to Dayton, Ohio, in 3 hours, 45 minutes, 12 seconds.

Jack Farley, chief, Production Flight, and Bill Pruitt, Military Relations, and production pilot, were the men making the flight which became the highlight of the final day of the National Air Show held in the Ohio city.

The long range of 1900 miles, flown without re-fueling, emphasizes the fact that the Scorpion can give greater protection than ever before to the United States, in case of attack, by ranging hundreds of miles offshore to intercept and destroy any attacking aircraft or fleets of aircraft.

Although the crew reported that the airplane performed perfectly, there were a number of amusing "Hobson's choices" which confronted the men at the beginning of the historic flight.

A stubborn engine held up the start for a time but, once started, purred a welcome song of power. At this point, eager to be off, Farley pushed the "Canopy Close" button. The canopy closed but the canopy warning light stayed on. Farley cycled the canopy several times but the light stayed red.

Meanwhile NAA officials Clyde Barnett, Andy Neff, and Lloyd Taber were anxiously poised to click their timers.

Farley and Pruitt investigated and found the canopy securely locked; then thundered down the field for the take-off.

Once aloft a second dilemma made its appearance. An extra 500-pound oxygen tank had been installed for the long hop. Pruitt started drawing from this tank and was startled to find that the gauge registered only 175 pounds — not enough for the trip.

Not wishing to turn back, Pruitt placed his elbows on a specially-rigged navigator's table and vowed to move only when necessary and to ration his oxygen by breathing as little as possible.

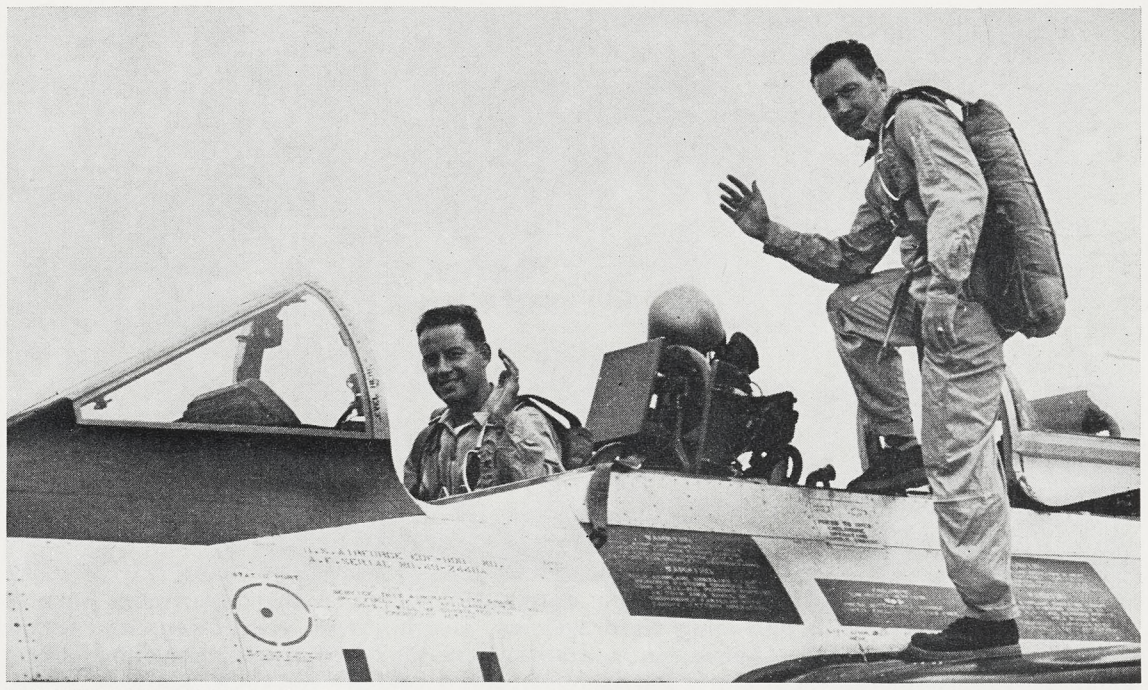
Fortunately, events proved that the tank was full and only the gauge was faulty.

No helping winds aided the flight as expected but the staunch airplane, without having to drop its pylon tanks, arrived at Dayton only 12 seconds behind Farley's estimated time of arrival. Farley had given this estimate to Bill Kerr, administrative assistant, Flight Department, just before take-off.

Pruitt's navigation was a pinpoint job which enabled Farley to swoop in from 38,000 feet, thrilling the crowds massed at the field to watch the Scorpion flash past the Bendix pylon where NAA timer Charles Logsden officially clocked the end of the long flight.

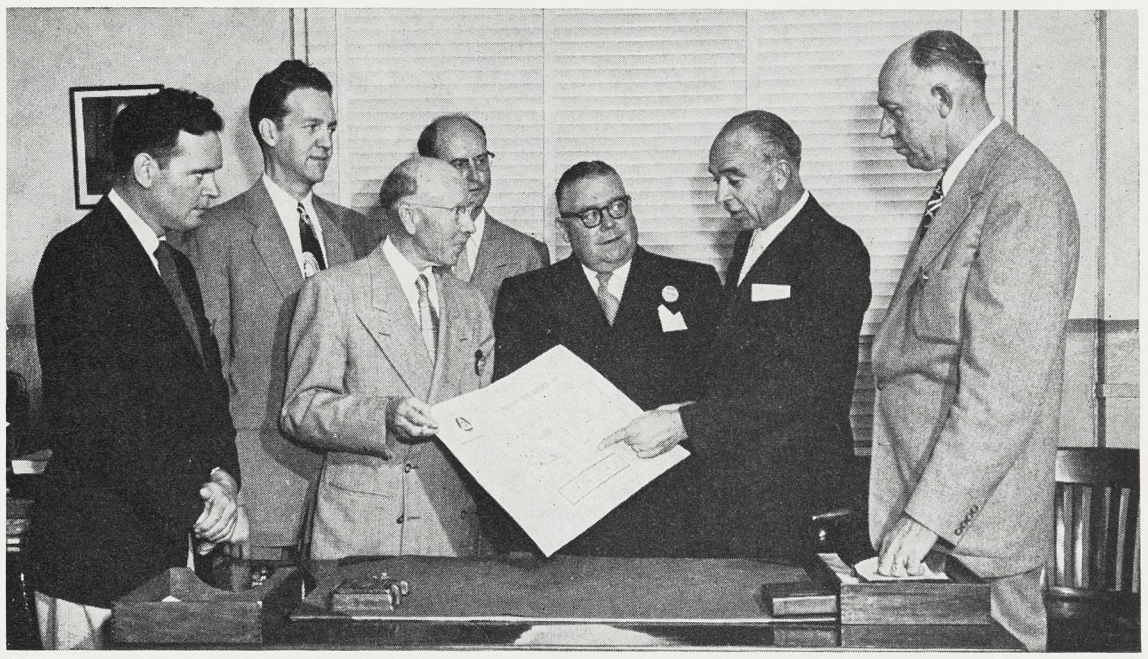
Both pilots gave high praise to the airplane which functioned perfectly and arrived with a surplus of fuel. They also lauded the Edwards and L.A.X. men who assisted the effort, "so well and willingly at a sacrifice of their own personal convenience".

Average speed on the trip was approximately 500 miles per hour. Next day Pruitt flew the airplane non-stop to the Northrop Florida base.



NORTHROP CREW which made non-stop flight to Dayton on Labor Day (see story at left) was composed of J. J. "Jack" Farley, left, piloting airplane, and Sherman "Bill" Pruitt, who acted as R. O. and navigator on flight. The two Norcrafters made it to Dayton, where national air show was being held, within 12 seconds of the time estimated prior to flight by Farley, who is chief of Production Test Flight at Ontario. Flight was an air show feature. Covering 1900 miles, it demonstrated extreme long range of Scorpion.

Civil Defense Inspection Tour



CIVIL DEFENSE ORGANIZATION and equipment at Northrop was subject of study by Ernest Dixon, coordinator of Region Nine, California State Office of Civil Defense—headquarters at Mount Lee, Hollywood. Dixon is shown here, second from right, as he discussed Civil Defense preparations with members of the CD Executive Advisory Committee. From left: Dr. K. B. Kincy, Medical department (acting for Dr. Roger D. Mackey, regular member); Lee Ohlinger; E. F. Burke, co-chairman; Lee Johnson; John B. Clark, chairman of committee; Dixon; and Northrop Civil Defense Coordinator L. J. "Jerry" Baker. They are discussing the Northrop Civil Defense map published with the March 11, 1953, issue of the Northrop News. Los Angeles has been revealed as critical target.

DURING HIS VISIT, Coordinator Dixon had opportunity to chat with Norcrafters in shops and offices who play important roles in Civil Defense organization. Nearing assembly line, he met Norcrafters shown above. From left, CD participants are Earl Nickles, general foreman in Outer Wing Assembly and Zone Warden; E. N. Richardson (5534); Dixon, being introduced to Blanche Henderson (5524); R. B. Benton (5524); W. E. Thompson (5504); and J. C. Brown (5544). All are wardens in the CD scheme. Dixon, who is former mayor of Inglewood, had high praise for the preparations already made at Northrop and for those currently under way. While here, he inspected the battery of telephones set up to contact key CD personnel; and the radiological monitoring equipment.

Fiesta Atmosphere Marks City's Festival of Flight

Lieutenant Governor Goodwin Knight will be grand marshal of the Grand Parade, and famed Hilo Hattie will entertain at the Coronation Ball—twin features of Hawthorne's gigantic "Festival of Flight", beginning tomorrow and extending through Saturday.

An exhibition of airplanes at Northrop Field on Saturday will vie with the attractions mentioned as the city celebrates not only the fiftieth anniversary of powered flight, but also the thirtieth anniversary of its incorporation as a city.

The Coronation ball, at which the festival queen will be crowned, will be held at the NRC Clubhouse, 175 North Hawthorne Boulevard, on Thursday night.

Among the 12 candidates for queen is Norcrafter Mary Runge, Mail Control messenger in Plant One. She, like the other hopefuls for the throne, is attempting to sell tickets to the ball; ducats are also available at PA&S offices in Plant One and Plant Three.

On Saturday morning the Kimanis Club sponsors its annual Kids' Day Pancake Breakfast on the boulevard fronting the Bank of America. Spectators who await the start of the four-mile-long parade at 10:00 a.m. thus will have the opportunity to fortify themselves, and, at the same time, to help a worthy project.

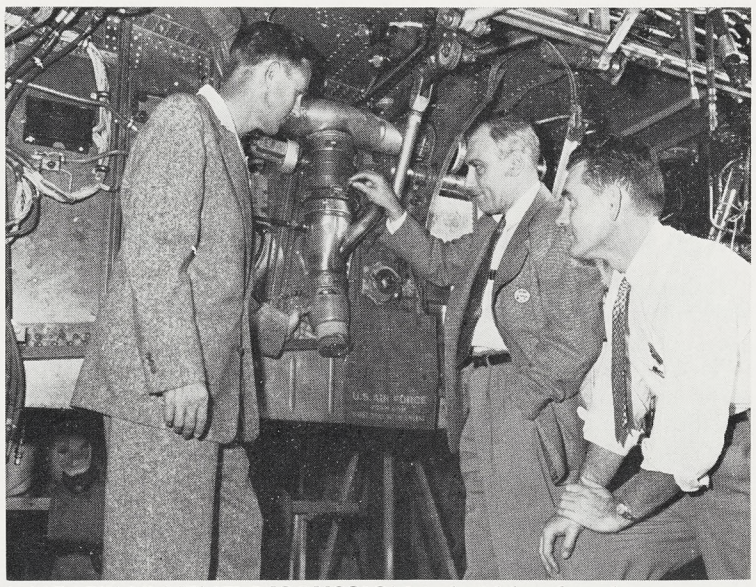
Among aircraft scheduled for display at the airport is the Scorpion. A number of current Navy and Marine airplanes are also expected, plus others.

A carnival atmosphere will prevail, the Chamber of Commerce reports, with aerial acts, street dancing, strolling troubadours, kiddies' carnival, and novelty acts vying for the attention of the populace.

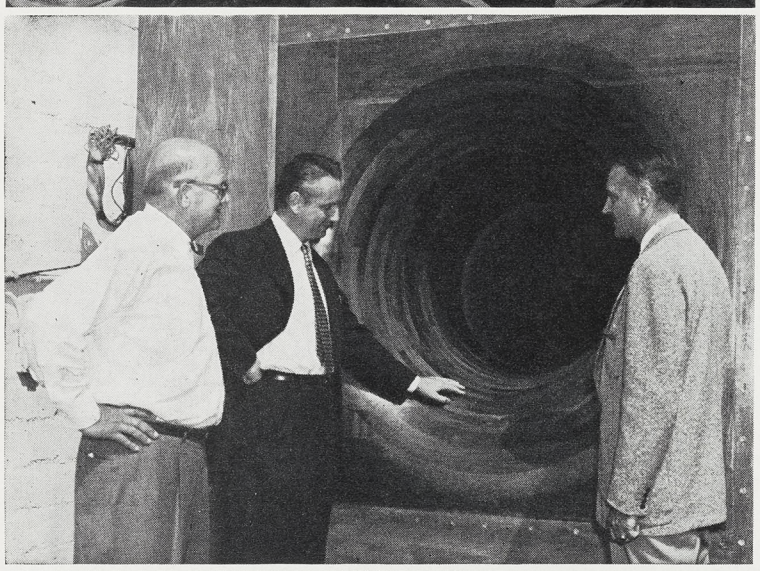
THE COVER

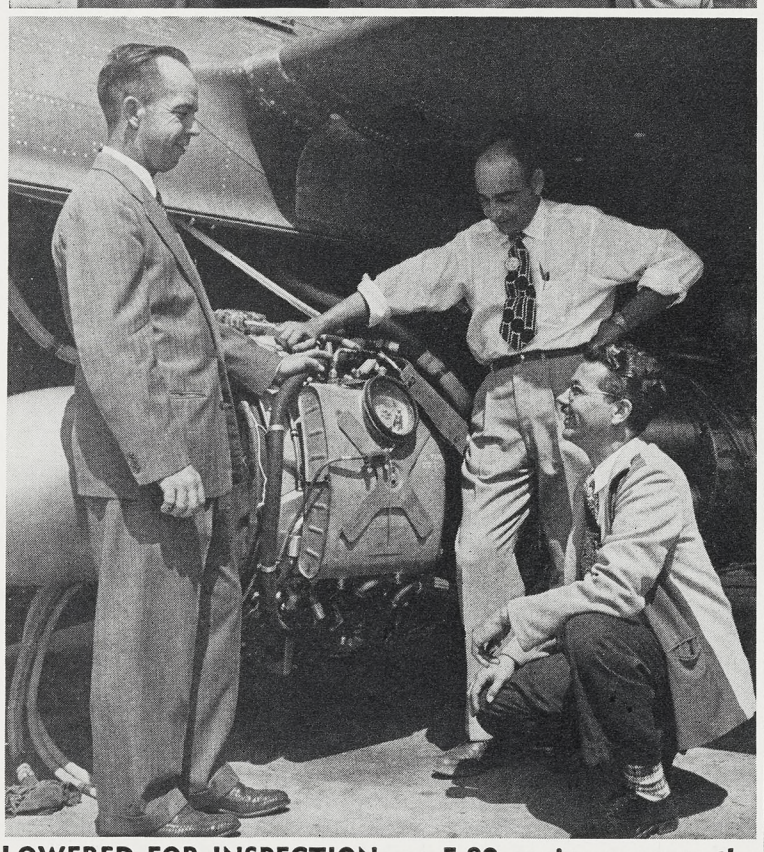
The cover picture shows anti-freeze fluid spurting from nozzle on F-89 radome. Picture was taken in Northrop wind tunnel by Bob Rodgers, Photo Lab. Device is automatic when airplane is in flight. Design was developed by Engineering Test Lab and Power Plant department. Story of Power Plant activity is on page four.

POWER PLANT MANAGEMENT has many duties. Not only does the department have to do with engines, but with anti-icing fluid systems, heating and ventilating, and other related component design. Above, in conference are Max Boggs, assistant chief; Pierre Volkmar, supervisor technical staff; Bill Holmes, chief; and Al Rathbun, staff assistant. Holmes has designed workings of department to allow full concentration on operations.



A HEATING VENT DISCUSSION is held by the above group. From left are: H. S. Ripley, missile group engineer; J. E. Comeau, technical specialist, Heat and Vent; and J. C. Cooper, missile group engineer. Group takes all details in stride, as do other groups within the Power Plant department.





LOWERED FOR INSPECTION, an F-89 engine engages the attention of Warren Collins, supervisor, F-89 Power Plant Project; Sid Cohan, group engineer; and Guy Burnham, group engineer. Easy access to engines is one of many sterling points of the entire series of Northrop Scorpion planes.

VARIETY OF DUTIES

POWER PLANT COVERS MORE THAN ENGINES

The term "Power Plant" at first glance would seem to deal only with the engines of an airplane, but the Power Plant department's duties are far more varied than the concerns of engines alone.

This department is organized as one of the four major engineering design departments and its duties include engineering of both engine and rocket propulsion installations; fluid systems; heating and ventilating systems; and related component designs.

Management of the varied activities of the department is the responsibility of recently appointed Chief of Power Plant, Bill Holmes, assisted by Max Boggs, assistant chief.

Operating supervision of power plant design engineers is delegated to the department's project groups. Warren Collins and Ed Reese supervise all power plant engineering for F-89 and special weapons projects.

Each of these men report the workings of their groups to both Holmes and cognizant project enineer charged with responsibility for the airplane or missile.

Under their direct supervision are approximately 130 capable design engineers working on the various specialized phases of design for both projects.

Two important groups of specialists support the Power Plant project groups. Power Plant Test is supervised by Bob Parke and a staff of technical specialists is headed by Pierre Volkmar.

Parke's group provides test engineering for all of the many necessary tests needed by the department and is responsible for passing the results on to designers for use in engineering more perfect designs.

Each of Volkmar's men is an expert in his field and serves as department advisor to designers, and consultant in outside work.

Harry Hotz, Jim Marmor, John Comeau, and Ken Bragg are the leading specialists in engine installation, rocket propulsion, heating and ventilating, and fluid systems, respectively.

Primary job of the chief's office, according to Holmes, is to direct the efforts of the entire department as a team and to provide operating personnel with technical and administrative support. Paper work, such as those administrative functions concerning hiring, job assignments, budgets, schedules and others, are handled largely by Holmes' office, thus relieving the supervisors of as much of this type of duty as possible.

As a result, the supervisors can now concentrate more fully on the exacting and myriad details relating to their highly specialized and important work, and can lend a hand, whenever needed, to the test and design engineers.

SINGLE POINT fueling system test stand component is discussed by C. J. Fuller, missile group engineer; R. G. "Bob" Parke, supervisor, Power Plant Test; and Ken Bragg, technical specialist, fluid systems. Test stand simulates fueling devices used in F-89 Scorpion airplanes.

BELL MOUTH made of laminated hardwood aids duct recovery and proper air distribution for static runs when testing engines. Viewing device are: L. H. Saal, missile group engineer; E. K. Reese, missile power plant supervisor; and B. B. Richardson, assistant supervisor in group.

Engineering Producibility Study Cuts Down Research and Development Stock List

The search for greater reliability in devices used by Northrop research engineers has resulted in the inauguration of a continuing study which inversely is cutting down the Research and Development stock list, with 400 items already culled.

The study, being carried out by H. J. Harley, standards engineer, under the supervision of Elmer Babel, Engineering Standards Group, has reduced the stock list from 200 pages to 20, and has resulted in an improvement in quality.

When researchers are hunting a new principle, specialized parts must be used since there are no parts now on the market designed to do exactly what is required.

When the principle has been proven, by experimental means, production parts must be selected — otherwise procurement becomes a problem. Thus, in the original research many units have been tried and each finds its way into the stock list, even those which are never included in the final article.

The study will do away with items which are used in identical or similar applications.

For instance, 15 types of relays have been dropped from the list as superfluous and two have been added, which have proven to be of superior quality and reliability.

Basic purpose of the study is to come as close as possible to the ideal situation in procurement which, according to Harley, would be, " . . . . to have the same parts used in research and development utilized on the production job."

Harley points out that less complex items also have a tendency to make a stock list cumbersome.

For instance, screw threads will no longer be carried in all sizes in both coarse and fine series. Investigation has shown that fine threads from 10-32 up will be most useful on the list, with coarse threads being used from 8-32 downward in dimension.

Engineering Standards Group is a part of Engineering Producibility, supervised by John A. Van Hamersveld.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office. (Department 4280, Mail Zone 20).

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)

SANTA MONICA BLVD. & WESTERN. (Down Western or Van Ness or Crenshaw or Arlington to plant), Hollywood. W. J. FORBELL (5234-17, Ext. 1981), HO 5-9121. (12-1-1)

VAN NESS & 48TH. (Will pick up riders anywhere in vicinity and along route—can depend on my being on time). Los Angeles. EDWIN A. BRANDT (5503-384, Ext. 2467), AX 3-1945. (12-1-1)

(Zone 2)

MANCHESTER & WESTERN. (Out Western or Normandie to Imperial and Crenshaw). Los Angeles 47. PAULINE H. HART (5241-13, Ext. 1755 or 1798), PL 2-3052. (12-1-2)

(Zone 6)

OCEAN BLVD. & REDONDO BLVD., Long Beach. F. L. DU PRIEST (5165-18, Ext. 768). (12-1-6)

(Zone 14)

FOOTHILL BLVD. & COMMERCE. (Tujunga to Northrop. Route—Glen Oaks to Hollywood Way to Olive to Cahuenga Blvd. to Highland Blvd. to La Brea to Northrop), Burbank. MARY FORD (9310-31, Ext. 1292 or 692), CH 0-5641. (12-1-14)

DOWNTOWN PACOIMA. (Route: down Woodman Ave. to Oxnard to Van Nuys Blvd. over Beverly Glen, Santa Monica to Overland to Florence to Prairie to Plant II. Can take one, or will switch cars every other week), Pacoima. MORRIS FIGOFF (5587-367, Ext. 1947), EM 2-5541. (12-1-14)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)

SANTA MONICA BLVD. & WESTERN. (Down Western, Van Ness, Crenshaw or Arlington to plant), Hollywood. W. J. FORBELL (5234-17, Ext. 1981), HO 5-9121. (12-3-1)

(Zone 2)

DOWNTOWN PASADENA. (Would like to ride in pool car or alternate driving my own car—anywhere in Pasadena), Pasadena. DONALD G. YOUMANS (5806-163, Ext. 533), SYcamore 7-3732.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 14)

FOOTHILL BLVD. & COMMERCE. (Tujunga to Northrop. Route—Glen Oaks to Hollywood Way to Olive to Cahuenga Blvd. to Highland Blvd. to La Brea to Northrop), Burbank. MARY FORD (9310-31, Ext. 1292 or 692), CH 0-5641. (12-3-14)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 1)

OLYMPIC & VERMONT or CRENSHAW. (Will pick up anywhere south of Olympic and between Vermont & Crenshaw), Los Angeles. M. L. STIEBLING (3211-24, Ext. 2011). (13-1-1

(Zone 2)

E. DEL MAR & MARENGO. (Would accept car pool arrangement), Pasadena. HAL HALL (5128-77, Ext. 1929 or 1961).

(Zone 3)

SANTA ANA & LONG BEACH BLVD. or FLORENCE & LONG BEACH BLVD. or LONG BEACH BLVD. & FIRESTONE, South Gate. JOYCE D. HALL (4220-31, Ext. 2028 or 2260). (13-1-3)

(Zone 4)

FIRESTONE BLVD. & STUDEBAKER RD., Norwalk. SAMMY KINNETT (9360-33, Ext. 2193), TO 3-2020. (13-1-4)

(Zone 5)

OLIVE & AVALON BLVD. or OLIVE & CENTRAL. (Route now traveled—Olive to San Pedro—Rosecrans—Crenshaw—by Plant III to Plant I or Plant II), Compton. R. J. NICKELSON (5127-12, Ext. 1929-1961-1946). (13-1-5)

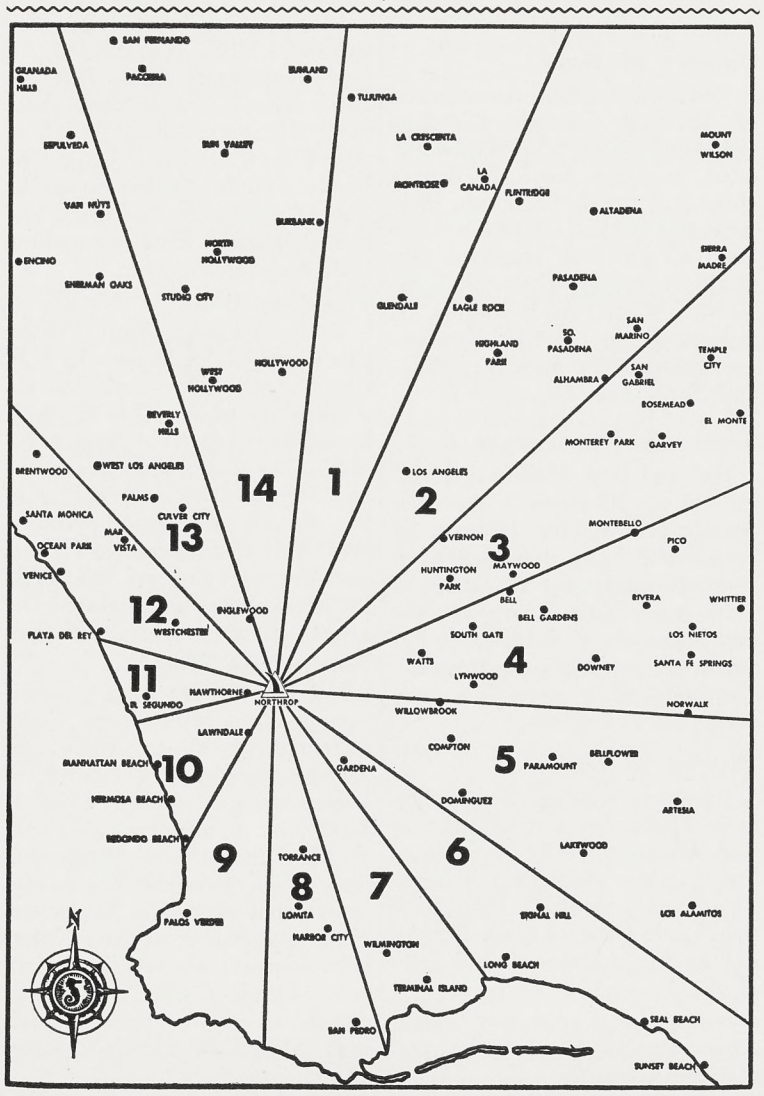
7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)

OLYMPIC & VERMONT or CRENSHAW. (Will pick up anywhere south of Olympic and between Vermont & Crenshaw), Los Angeles. M. L. STIEBLING (3211-24, Ext. 2011). (13-3-1)

(Zone 3)

SANTA ANA & LONG BEACH BLVD. or FLORENCE & LONG BEACH BLVD. or LONG BEACH BLVD. & FIRESTONE, South Gate. JOYCE D. HALL (4220-31, Ext. 2028 or 2260). (13-3-3)



RIDES OFFERED

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 3)

VERMONT & 98TH ST. (Can take 4 riders), Los Angeles. W. J. HOLLOWAY (8330-819, Tieline 2011, Ext. 12), PL 5-0740. (13-3-3)

(Zone 5)

OLIVE & AVALON BLVD. or OLIVE & CENTRAL. (Route now traveled—Olive to San Pedro—Rosecrans—Crenshaw—by Plant III to Plant I or Plant II), Compton. R. J. NICKELSON (5127-12, Ext. 1929-1961-1946). (13-3-5)

(Zone 9)

PACIFIC COAST HIWAY & TORRANCE, Redondo Beach. KENNETH W. BUSSER (8620-121, Ext. 2011 (40). (13-3-9)

(Zone 12)

VENTURA & TOPANGA. (Room for 3. Route: down Topanga to Northrop via Pacific Coast Highway, Ocean Ave., Main, Pacific Ave.), Woodland Hills. J. M. HERRINGTON (6620-2, Ext. 1519 or 2126). (13-3-12

WILSHIRE BLVD. & 18TH ST. (Route: Wilshire Blvd. to Lincoln Blvd - Lincoln to Imperial - Imperial to Sepulveda - Sepulveda to El Segundo Blvd. - El Segundo to plant), Santa Monica. ALAN FEUERSTEIN (6230-46, Ext. 2562), EXbrook 5-8084. (13-3-12)

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 7)

MAIN & SEPULVEDA or SEPULVEDA & AVALON, Wilmington. W. F. STAUB, Jr. (4130-214, Ext. 656). (16-1-7)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)

JEFFERSON & HOOVER, Los Angeles. JERRY NIMS (5353-62, Ext. 2202), RI 9568. (18-1-1)

(Zone 12)

VENICE & CENTINELA. (Centinela to Jefferson to Sepulveda to Century to Prairie), Los Angeles. LUCRETIA SAWYER (4220-230, Ext. 1452). (18-1-12)

ARWIN & ANZA to Inglewood-Hawthorne Blvd. (Route: will go up to Century or on El Segundo Blvd. anywhere between there on Anza and Imperial and down Broadway to Plants I and III. Would like one rider), Inglewood. PAUL BUCHANAN (5508-245, Ext. 520). (18-1-12)

ROSE & CENTINELA. (I have room for 4 riders. I will pick up anyone between my home and plant who lives on or near my route. I come down Centinela to Freeman then to Century or I can come down Sepulveda to Century), Venice. CLEATIS L. BYFIELD (5586-227, Ext. 483), EX 8-2118. (18-1-12)

(Zone 13)

SEPULVEDA & WILSHIRE BLVD. (Ride offered to anyone going northwest in general direction of Westwood Village), Westwood. JIM DOUBET (5503-451, Ext. 2467), AR 9-8549. (18-1-13)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 12)

ROSE & CENTINELA. (I have room for 4 riders. I will pick up anyone between my home and plant that lives in or near my route. I come down Centinela to Freeman then to Century or I can come down Sepulveda to Century), Venice. CLEATIS L. BYFIELD (5586-227, Ext. 483), EX 8-2118 (18-3-12)

IRWIN & ANZA to Inglewood-Hawthorne Blvd. (Route: will go up to Century or on El Segundo Blvd. anywhere between there an Anza and Imperial and down Broadway to Plants I and III. Would like one rider), Inglewood. PAUL BUCHANAN (5508-245, Ext. 520). (18-3-12)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

TO EAST. (Leaving Oct. 9 for Louisville, Kentucky. Will take riders East to share expenses and possibly driving), Los Angeles. M. L. STIEBLING (3211-24, Ext. 2011). (20-1-All

(Zone 1)

DOWNTOWN LA CRESCENTA. (Can accommodate riders from La Crescenta, Montrose, or Glendale. Hours 7:00 a.m. to 4:15 p.m.), La Crescenta. MELVIN L. DUNBAR (5700-12, Ext. 2053), CH 9-6305. (20-1-1)

ADAMS & FIGUEROA. (Hours: 4:15 to 12:45), Los Angeles 7. BARBARA J. DOUGLAS (9330-138, Ext. 1474), Richmond 4821. (20-1-1)

(Zone 6)

ATLANTIC & 7TH or AMERICAN & 7TH. (Hours 4:30 p.m. to 2:00 a.m.), Long Beach. ELMO F. BACHMAN (5920-215, Ext. 2612), LB 7-4482. (20-1-6)

Miscellaneous (Split Shifts)
(Plant 3 and El Segundo Buildings)

TO EAST. (Leaving Oct. 9 for Louisville, Kentucky. Will take riders East to share expenses and possibly driving), Los Angeles. M. L. STIEBLING (3211-24, Ext. 2011). (20-3-All)

Rides Wanted

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)

VERNON AVE. or 46TH ST. & 8TH AVE., Los Angeles. J. A. McQUILLEN (5503-94, Ext. 2464), AX 9342. (2-1-1)

(Zone 2)

MARENGO & SOTO or 1ST & SOTO, Los Angeles. CARTER MAYERS (5503-378, Ext. 2681), CA 2-9247. (2-1-2)

VERNON & MAIN. (Need ride badly), Los Angeles. JOSEPH LAKE SMITH (5503-37, Ext. 2467 or 2681). (3-1-2)

(Zone 4)

VERMONT & IMPERIAL, Los Angeles. ROBERT G. CRIMMINS (5508-155, Ext. 2230). (2-1-4)

(Zone 5)

OLIVE & GARFIELD (CHERRY IN L.B.), Paramount. C. H. SHEPHERD (5507-77, Ext. 526), ME 3-2672. (2-1-5)

STUDEBAKER ROAD & ROSECRANS or STUDEBAKER ROAD & IMPERIAL, Norwalk. ELAINE STEINER (7220, Ext. 2225), TO 4-0868. (2-1-5)

COMPTON BLVD. & CENTRAL AVE., Compton. (Need a ride immediately). HARVEY C. HENRY (5503, Ext. 2467 or 2681), NE 2-7712. (2-1-5)

(Zone 6)

ROSE & PHILLIPS, Long Beach. MARGARET DANIEL (5507-79, Ext. 526), LB 203281. (2-1-6)

OCEAN BLVD. & REDONDO BLVD., Long Beach. F. L. DU PRIEST (5165-18, Ext. 768). (2-1-6)

(Zone 7)

MAIN & 29TH PLACE. (Transferring from nights to days and need a ride), Wilmington. LORRAINE SYMMONDS (5544-605, Ext. 2645). (2-1-7)

(Zone 10)

ROSECRANS & HIGHLAND, Manhattan Beach. CHARLES MOORE (5585-38, Ext. 1381), FR 4-8584. (2-1-10)

(Zone 12)

CENTURY BLVD. & INGLEWOOD AVE. (Can meet someone at Hawthorne & Century if more convenient), Inglewood. ETHYLE RUETHER (5235-15, Ext. 1979). (2-1-12)

SEPULVEDA & 80TH ST. (Can work 7:30 to 4:15), Los Angeles. DOLORES ROCHFORD (9320-32, Ext. 2151). (2-1-12)

(Zone 14)

SANTA MONICA BLVD. & LA BREA AVE., Hollywood. RALPH M. COOPER (5503-148, Ext. 2431). (2-1-14)

DOWNTOWN PACOIMA. (Route: down Woodman Ave. to Oxnard to Van Nuys Blvd. over Beverly Glen, Santa Monica to Overland to Florence to Prairie to Plant II. Can take one, or will switch cars every other week), Pacoima. MORRIS FIGOFF (5587-367, Ext. 1947), EM 2-5541. (2-1-14)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 7)

REDONDO BEACH BLVD. & WESTERN AVE., Gardena. ANN F. THOMSON (4250-52, Ext. 593), ME 4-1000. (2-3-7)

WESTERN & 166TH ST., Gardena. JOSEPH SCHNEIDER (5538-30, Ext. 525), ME 9-3322. (2-3-7)

(Zone 10)

MANHATTAN BEACH BLVD. & AVIATION, Redondo Beach. L. V. PROCTOR (4250-64, Ext. 593). (2-3-10)

(Zone 13)

ROBERTSON & NATIONAL BLVD., Los Angeles. FRANK FEINGERTS (5515-584, Ext. 2684), VE 9-8834. (2-3-13)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 1)

VENICE & HOOVER, WASHINGTON & HOOVER, Los Angeles. MADELYN MYERS (8400-13, Ext. 2345 or 2736), RI 7-8416. (3-1-1)

(Zone 2)

E. DEL MAR & MARENGO. (Would accept car pool arrangement), Pasadena. HAL HALL (5128-77, Ext. 1929 or 1961). (3-1-2)

CENTURY BLVD & WILTON PLACE or WESTERN AVE. & 103RD ST., Los Angeles. VIOLET MYERS (5127-25, Ext. 1904), PL 6-7361. (3-1-2)

HOOVER & W. 60TH ST., Los Angeles. ARLENE RAINA (5100-26, Ext. 469). (3-1-2)

(Zone 4)

BROADWAY & 124TH ST., Los Angeles. LUWANNA RUSSELL (4220-40, Ext. 2421). (3-1-4)

(Zone 5)

BUDLONG & 136TH or 138TH ST. (Strawberry Park tract. Can walk to best spot for driver), Gardena. BARBARA LINEHAN (5113-45, Ext. 1342), ME 9-2320. (3-1-5)

(Zone 5)

PARAMOUNT BLVD. & HARDING AVE. or PARAMOUNT BLVD. & ROSECRANS, Hollydale. E. A. Parkinson (3315-38, Ext. 414), ME 3-5992. (3-1-5)

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 6)

WARDLOW & ORANGE, Long Beach. WALTER L. STARLING (9360-15, Ext. 2191), LB 4-9479. (3-1-6)

AMERICAN or MAGNOLIA & 4TH ST. (Anywhere downtown Long Beach), Long Beach. MARY MULLANE (3310-62, Ext. 2607). (3-1-6)

DAPHNE & 147TH, Gardena. MRS. MARY PIERCE (4220-101, Ext. 2260), ME. 4-5513. (3-1-6)

(Zone 7)

AVALON & VICTORY or VICTORY & MAIN or VICTORY & FIGUEROA, Gardena. CLIFFORD B. VIRAK (9320-95, Ext. 1682). (3-1-7)

ANAHEIM & McDONALD STS., Wilmington. SHIRLEY LISTER (5128-80, Ext. 1656), TE 4-7747. (3-1-7)

(Zone 8)

GAFFEY ST. & ALMERIA, San Pedro. STELLA GACH (6355-70, Ext. 2625), TE 3-9196. (3-1-8)

(Zone 9)

VINCENT & LUCIA or EMERALD & LUCIA or TORRANCE BLVD., Redondo Beach. LORRAINE M. MAJEWSKI (5127-67, Ext. 465), FR 2-5646. (3-1-9)

(Zone 10)

MANHATTAN BEACH BLVD. & RINDGE LANE. (Former ride has come via Redondo Beach Blvd.—Left on Rindge to Manhattan Beach Blvd.—Right to Inglewood Ave. to Broadway), Redondo Beach. NORMA JEAN SHANAFELT (1441-45, Ext. 691). (3-1-10)

TULITA AVE. & AVE. "A", Redondo Beach. GINGER MARSH (4240-43, Ext. 777). (3-1-10)

(Zone 11)

AVIATION & 123RD PLACE, Hawthorne. R. M. THOMASON (9400-14, Ext. 1352).

BROADWAY & INGLEWOOD. (Will come in early and wait later after work for ride), Hawthorne. BLANCHE DRAPER (6269-248, Ext. 496), OS 6-6147. (3-1-11)

AVIATION & IMPERIAL, Inglewood. BETTY SIMS (4240-22, Ext. 777). (3-1-11)

(Zone 12)

SEPULVEDA & 80TH ST. (Can work 7:30 to 4:15), Los Angeles. DOLORES ROCHFORD (9320-32, Ext. 2151). (3-1-12)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)

RODEO RD. & JEFFERSON, Los Angeles. CHARLES SORRENTINO (6110-71, Ext. 1474), YO 3500. (3-3-1)

SILVER LAKE & SUNSET. (Anywhere within convenient ride of Hollywood Red car or West Hollywood (Santa Monica) bus will do. Can join car pool in 2-3 weeks when car is repaired), Los Angeles. LEONARD T. LICKERMAN (8620-135, Ext. 29-28), OL 2826. (3-3-1)

CRENSHAW & 112 ST., Inglewood. DONNA SCHORLE (1435-74), OR. 1-2058. (3-3-1)

(Zone 2)

FIGUEROA & 74TH. (I would like a driver who could pick me up at my home at 7:00 a.m.), Los Angeles. JACK ROPER (3149-33, Ext. 2021), PL 3-7431.

(Continued on Page 6)

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 637. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BOWLING
Florence Rice, commissioner
Winter Leagues now forming. All ladies interested please contact PA&S.

DINNER CLUB
Cathy Waffel, commissioner
Interested ladies contact PA&S.

FLOWER CLUB
Mary Nelson, acting commissioner
Meet first and third Tues. of each month. NRC Clubhouse, 7:30 p.m. New members welcome.

GOLF CLUB
New golf club now forming. Call PA&S.

INTERIOR DECORATING
Donna Pratt, acting commissioner
Next meeting Oct. 1. Upholstery instruction provided. (Sept. 24th meeting cancelled.)

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m. NRC Clubhouse. Instruction provided.

MARINERS
SENIOR GIRL SCOUT TROOP
May Hawkins
Swimming, boating and seamanship. Meet Thursday 7:00 p.m. Scout cabin, 135 Grevilla, Hawthorne.

SLIM 'N TRIM
Dorine Benkendorfer, acting commissioner
Meet every Monday, 7:30 p.m., NRC Clubhouse.

SOFTBALL
Bess Gherna, commissioner
League ended. Practice games still scheduled.

TOASTMISTRESS
Marie L. Sauer, representative
Meet first and third Thursday, NRC Clubhouse. 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 4)

IMPERIAL & FIGUEROA, Los Angeles. GERI T. GALUPPO (3141-759, Ext. 1839), PL. 4-1935 (3-3-4)

(Zone 5)

BELLFLOWER & SPRING, Long Beach. PAT BRADSHAW (1440-26, Ext. 415).

STUDEBAKER & ALONDRA, Norwalk. (Monday night only). PAT PARIS (3140-882, Ext. 427), TO. 4-8222. (3-3-5)

CLARK & ARTESIA, Bellflower. BETTY LARSON (3140-717, Ext. 427), TO. 7-9737. (3-3-5)

(Zone 9)

EMERALD & CATALINA, Redondo Beach. ROY C. ASHEN (5126-50, Ext. 2546).

(Zone 10)

PRAIRIE & 133RD ST., Hawthorne. BETTY I. JOHNSON (1435-80, Ext. 2761).

(Zone 14)

WEST BLVD. & SLAUSON, Los Angeles. GERRY KNOTT (8340-814, Tieline 2011, Ext. 42), PL 8-0918. (13-3-4)

VINE & ROSSMORE or VINE & MELROSE. A ride with someone from the Hollywood area or perhaps someone driving from the Valley would be greatly appreciated), Los Angeles. ELAINE TOMKINS (1435-52, Ext. 2761-2762), HO 2-4463. (3-3-14)

7:30 a.m. — 5:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 14)

CRENSHAW & SANTA BARBARA. (One way—5:15 only), Los Angeles. FRANK McREYNOLDS (3410-843, Ext. 1818), AX 1-2435. (4-3-14)

8:00 a.m. — 4:45 p.m.
(Plants 1 and 2)

(Zone 13)

LA TIJERA & CENTINELA BLVD., Los Angeles. MARY C. POWELL (4230-31, Ext. 631), OR 7-0467. (5-1-13)

(Zone 14)

MANCHESTER BLVD. & WEST (at Crenshaw Drive), Inglewood. BETTY J. JOHNSON (4270-32, Ext. 630), PL 1-3507. (5-1-14)

8:00 a.m. — 4:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 14)

MANCHESTER & CRENSHAW, Inglewood. MARIAN H. WEAVER (1435-30, Ext. 2761). (5-3-14)

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 1)

CENTURY & CRENSHAW Inglewood. CHERIE HAMMOND (5400-211, Ext. 1510), OR 1-1113. (6-1-1)

(Zone 6)

PACIFIC COAST HIWAY & SANTA FE or PACIFIC COAST HIWAY & WILLOW, Long Beach. JOHN J. CREEK (5411-222, Ext. 1491. (6-1-6)

3:45 p.m. — 12:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 13)

SEPULVEDA & SAWTELLE or SEPULVEDA & CENTINELA, Culver City. GINGER ARKILL (5538-225, Ext. 1285 or 525). EX 8-4007. (6-3-13)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)

OFF ADAMS BETWEEN HALLDALE & BUDLONG. (One block off Adams), Los Angeles. RUFUS PHILLIPS (5503-676, Ext. 2681), RE 2-2809. (8-1-1)

RIDES WANTED

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

SANTA BARBARA & BUDLONG, Los Angeles. LUCY L. LEWANDOWSKI (5584-473, Ext. 1381), AX 2-0582. (8-1-1)

JEFFERSON & HOOVER, Los Angeles. JERRY NIMS (5353-62, Ext. 2202), RI 8-9568. (8-18-1)

(Zone 10)

VINCENT & JUANITA. (Near entrance to Redondo High School football bowl), Redondo Beach. COLENE BUZZARD (6269-235, Ext. 496), FR 2-5955. (8-1-10)

AVIS & 154TH or COMPTON & AVIS, Lawndale. KATHLEEN T. RHODES (5503-446, Ext. 2681), OS 6-8346. (8-1-10)

FLAGLER & SPEYER, Redondo Beach. MARVIN E. WYNN (5501-443, Ext. 2200). (8-1-10)

PIER AVE. & HERMOSA, Hermosa Beach. KETTIN STANBURY (5585-416, Ext. 1571). (8-1-10)

(Zone 12)

AIRPORT BLVD. & LA TIJERA or MANCHESTER & FREEMAN, Los Angeles. DOROTHY H. POE (5002-211, Ext. 622), OR 2-4774. (8-1-12)

HINDRY AVE. & MANCHESTER BLVD., Inglewood. BOB KING (6382-211, Ext. 2085), OR 7-9505. (8-1-12)

(Zone 13)

LA BREA & FAIRVIEW BLVDS., Inglewood. VIOLA CHRISTOPHER (5910-212, Ext. 2145), OR 7-5208. (8-1-13)

FREEMAN BLVD. & HILLCREST, Inglewood. HELEN G. DEL MONTES (9340-224, Ext. 2263), OR. 8-6959. (8-1-13)

SEPULVEDA & WILSHIRE BLVD. (Ride offered to anyone going northwest in general direction of Westwood Village), Westwood. JIM DOUBET (5503-451, Ext. 2467), AR 9-8549. (8-1-13)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 10)

REDONDO AVE. & 3RD ST. (Near Manhattan Beach & Aviation Blvd. Hours 4:15 p.m. to 12:45 a.m.), Manhattan Beach. FLORENCE WILKERSON (6269-234, Ext. 496), FR 2-0126. (10-1-10)

Miscellaneous (Split Shifts)
(Plant 3 and El Segundo Buildings)

(Zone 1)

ALVARADO ST. & PICO. (Hours 4:15 p.m. to 1:00 a.m.), Los Angeles. (Any transportation within ½ mile in either direction). JERRY H. LESHNER (6230-298, Ext. 2569), DU. 2-5978.

(Zone 7)

AVALON BLVD. & SEPULVEDA. (Hours: 4:15 p.m. to 1:00 a.m.) Wilmington. DOROTHY WAUGAMAN (6230-280, Ext. 754). (10-3-7)

(Zone 11)

BROADWAY & EUCALYPTUS. (Hours 4:15 to 1:00 a.m.), Hawthorne. MARGARET KING (6269-261, Ext. 2510), OS 5-1915. (10-3-11)

(Zone 14)

LA BREA & OLYMPIC. (Hours: 4 p.m. to 1:00 a.m.) Los Angeles 19. ED H. SCHMIDT (6230-295), WE 3-4693.

Lynwood

RIDES WANTED

Miscellaneous (Split Shifts)

(Zone 6)

COMPTON PACIFIC ELECTRIC STATION. (Hours 4:15 to 12:45), Long Beach. EUNICE RETTIG (6269, Ext. 1611), LB 6-0158. (10-Lynwood-6)

Mat Con says

A CONSERVATION PLEDGE

I give my pledge as an American to save and faithfully defend from waste the Natural Resources of my Country.

Bon Voyage to a Vacation

TELEPHONE OPERATORS pause briefly for photog during festive patio get-together at home of Margaret Hamilton just prior to Supervisor Lou Van Cleve's departure on vacation trip to Ohio. From left, front row, are: Nola McCandless, Frankie Phillips, Pauline Chaffin; Ruth Jerrell (guest and sister of Lou Van Cleve); Lou; Blanches Jones; Jeanette Hines; and hostess Margaret Hamilton. Second row: Ada Hilton, Sue Weeks, Phyllis Smith, Joye Avery and Vera de Villiers. Third row: Viola Boland, Martha Lucken, Doris Risser and Beulah Wilson. Fourth row: Lena Hunter, Tommie Schoettlin, Florence Kite, Fern Milner and Evelyn Hathaway. Girls voted evening a tremendous success.

The STORK CLUB

Alice In Wonderland

Keith and Doris Carpenter, Missile Test Facility, Florida, announce with pride the birth of daughter Christine Alice on July 28, 1953, at Brevard Hospital. Little Christine weighed in at 7 pounds, 8 ounces. She joins two other little Carpenters, brothers Paul, 7, and Edward, 1½.

Baby Girl

Russell and Vivian Gibbs, Plastic Shop, proudly announce the birth of brand new baby daughter Marilyn on July 30, 1953. Little Marilyn destorked at the Good Samaritan Hospital at 2:22 p.m. She weighed 7 pounds, 15½ ounces. Moving up from the nursery for her is big brother Steven, 4.

Husky Lad

Frank and Marguerite Strosnider, Jig Construction, announce the good news of the birth of son Jack Edwin, born July 28, 1953, at 12:30 p.m. Little Jack arrived at Hawthorne Community Hospital weighing 9 pounds, 12 ounces, and measuring 21 inches. Also happy about the arrival are sister Jacquiline Belle, 9, and brother Frank, jr., 12.

First Grandchild

Charles and Margaret Heil (he of '89 Modification; she formerly of Blueprint Control) became parents on July 31, 1953, when son Charles Peter arrived at Hawthorne Community Hospital. Little Charles destorked at 5:25 p.m., weighing 7 pounds, 3 ounces, and measuring 20½ inches. Proud grandparents are Mr. and Mrs. Charles Peter Heil.

Gregory James Price

Vance and Marion Price (he of Assembly Stores; she formerly of Master Planning, now of Cost Estimating) announce the belated news of the birth of son Gregory James, born April 21, 1953, at 5:30 p.m. Little Gregory weighed 7 pounds, 10 ounces on arrival at Santa Monica Hospital. Moving up from the nursery is Jeffrey, 3.

Steven Vlottes

Peter and Eunice Vlottes, (she formerly of Electrical and Instruments) are proud parents of a new son, Steven, born July 26, 1953, at 4:38 p.m. Little Steven tipped the beam at 6 pounds, 15 ounces on arrival at Hawthorne Community Hospital. Waiting at home for his arrival were sister Sandra, 10, and brothers Gerry 12, and Pete, 5.

Berndts In The News

Frank and Violet Berndt, Machine Shop, are excited these days—and justifiably so—over the birth of first child and son Franklin Charles, jr. Little Frank arrived on August 8, 1953, at 12:56 a.m. at the Bon Air Maternity Hospital. He weighed 6 pounds, 14 ounces.

Quartet of Boys

Ben and Edith Smernoff (he of Material Control; she formerly of Spare Parts) are excited over the birth of fourth child and son Larry Lynn, born August 14, 1953, 3:20 a.m. Little Larry first glimpsed this world at Seaside Hospital, Long Beach. He weighed 5 pounds, 10 ounces. Other quartet members are Johnny, 5; Ben, jr., 3½; and Terry Lee, 1½.

Kimberly Hunsberger

Hal and Beth Hunsberger, Installation Planning, are the proud and happy parents of brand new baby daughter Kimberly, born August 20, 1953, at 7:10 p.m. Little Kimberly, the first Hunsberger child, made her debut at the Centinela Hospital. She weighed a neat 7 pounds even.

Quartet of Girls

Barry and Helen Smith, Ontario Flight Service Administration, are announcing the birth of brand new daughter Rebecca Brooke on August 20, 1953, 8:20 p.m. Little Rebecca made her debut at San Antonio Community Hospital weighing 7 pounds, 5 ounces. Big sisters are Cheryl Anne, 9; Sandra Lee, 6; and Deborah Lynn, 3.

Number Two Son

Ed and Mary Jane Blaty, Flight, EAFB, announce with pride the birth of son Kevin Charles on August 9, 1953, 4:38 p.m. Little Kevin destorked at Lancaster Hospital and weighed in at 6 pounds, 13 ounces. Other members of Kevin's proud family circle are big brother Billy, 14 months, and Norcrafters Grandmother Dee Blaty (Finance), Uncle Buzz Blaty (Materiel), and Aunt Marilyn Blaty (Electro-Mechanical Design).

THE HITCHING POST

Marriage Vows

Ruth Brown, Ontario Personnel assistant, exchanged marriage vows with Clifford J. Harrell, Allison representative, on June 27, 1953. The ceremony took place at 11:30 at the Little Church of the West in Las Vegas. The happy couple honeymooned at Lake Arrowhead, Ensenada and San Francisco. They are making their home in Ontario.

Wedding Bells

Kathy Lackey, Plant Protection, and John Kendall, U.S. Army, made it Mr. and Mrs. via a wedding ceremony at Epworth Methodist Church on August 14, 1953. The 8:00 p.m. ceremony was followed by a reception at the church. The young couple took their honeymoon in Carmel and Monterey and are now making their home in Seaside. The groom is stationed at Ford Ord.

Norcrafters Wed

Dee Dee Ziegler, Mail Control, became Mrs. John Upton (John formerly of Plaster Shop) at First Presbyterian Church of Inglewood on August 1, 1953, at 8:00 p.m. A reception was held at the church immediately following the ceremony. The newlyweds honeymooned in Santa Barbara and San Francisco. Other Norcrafters in the wedding party were Frank Ziegler, jr., Final Assembly; Glenn Combs, tooling; and Tris Jacobs, Plaster Shop.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below. call or contact Personnel Activities and Services, Plant One, 637; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BALLROOM INSTRUCTION
Discontinued for balance of summer. Watch for new starting date in October.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily, Conference room 1-5 11:00 a.m. lunch period. Plant III 12:15 p.m. Conference Rm. 5.

BOAT CLUB
Harold Senter, commissioner
Next meeting Monday, Oct. 5, 7:30 p.m., NRC Clubhouse. Discussion and plans for forthcoming dance. All members urged to attend. Vote to be taken on new meeting day.

BOWLING (DAYS)
Chuck Carson, commissioner
Winter Leagues forming. Entry forms available at PA&S, Plants I & III.

BOWLING (Nights)
Tony Cardoza, act. commissioner
Winter Leagues forming. Entry forms available at PA&S, Plants I & III.

BRIDGE
Bill Glose, acting commissioner
Meet first and third Tuesdays each month, 7.30 p.m., NRC Clubhouse.

CAMERA CLUB (Days)
Walt Darby, commissioner
Next meeting, Friday, September 25, 8:00 p.m., NRC Clubhouse Annex. Shooting session. Bring cameras and object suitable for still life.

CAMERA CLUB (Nights)
Adam Slusarz, acting commissioner
Next meeting Saturday, Sept. 26, 8:00 p.m. Lecture & Demonstration in negative retouching. Interesting movies.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Room. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (DAYS)
Jim Milne, commissioner
Annual open Golf Tournament Sept. 13th and Sept. 27th.

GOLF CLUB (NIGHTS)
Bill Levens, commissioner
Meet every Thurs., 8:30 a.m. Fox Hills Country Club. 36-Hole Medal Play for the Swing Shift Golf Championship, Sept. 24 & Oct. 1st. All entries must have established handicap.

GUN CLUB
Dick Wood, acting commissioner
Meets every other Tues., 7:30 p.m., NRC Clubhouse. Next meeting Sept. 29.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m., 1016 No. Market St., Inglewood. Sunday, 9:00 a.m. to 12:00 noon.

PHILATELIC CIUB
George Borton, commissioner
Philatelic & Numismatic combined club meets 2nd & 4th Mondays each month, NRC Clubhouse, 7:30 p.m.

RIDING CLUB
Don Danner, commissioner
Next ride Sunday, Sept. 27, 7:30 a.m. Election meeting for commissioner at Circle Bar Clubhouse, 10:30 a.m. Members urged to attend.

SEA SCOUTS
Frank Ziegler, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Oct. 3. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Sept. 25, NRC Clubhouse Board Room.

SOFTBALL
Paul Wheeler, commissioner
League Finals—Day & Night Shift—Rosecrans Playground.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse.

SQUARE DANCING
David Dyer, commissioner
Intermediate level dancing with plenty of instruction for "rusty" Squares. Meet every Sunday eve., 7:00 to 10:00 p.m., NRC Clubhouse annex.

SURF FISHING
Ted Griswold, acting commissioner
Meets last Thursday each month, 7.30 p.m., NRC Clubhouse. September 24 meeting postponed to September 29. Movies and refreshments.

TOASTMASTERS (Days)
Glen Jackson, representative
Installation meeting, Western Club, 15516 So. Western, Gardena, 7:00 p.m., October 1.

TOASTMASTERS (Nights)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon. Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Les Squires, acting commissioner
Next meeting Wednesday, Sept. 30, 7:30 p.m., NRC Clubhouse. Election of commissioner. All members please attend.

New Links Instruction Series

WOMEN'S NRC GOLF CLUB is making plans for a new five-lesson series of instructions to begin Tuesday, October 6. The class, open to all lady Norcrafters or wives and friends of Norcrafters, will be for novices and intermediates. Teeing off in photo above is original Golf Club member Laura Coonradt, Fluid Dynamics. Waiting in turn for practice drive are, from left: Virginia Otto, Customer Field Service; Bonnie Hickman, Fluid Dynamics; Jean Doran and Alberta McBeth, Northrop News. Club will meet at Instructor Ed Wilson's Culver City Golf Course every Tuesday. Interested golfers call PA&S.

NRC PLAYOFFS CONTINUE

Limited Supply of Ducats At PA&S For Grid Season

Personnel Activities & Services will again this year have a limited number of tickets for USC and UCLA home football games.

Tickets for each scheduled game will be on sale at Personnel Activities & Services, Plants One and Three, approximately 10 days prior to the game. Personnel at outlying facilities should contact their PA&S office or Personnel.

USC's home games will be: September 26—Minnesota; October 2—Indiana; October 17—Oregon State; November 7—Stanford; November 21—UCLA; November 28—Notre Dame.

UCLA's home games will be: September 25—Kansas; October 9—Wisconsin; October 24—Washington State; October 31—California; November 14—Washington; November 21—SC.

AMERICAN LOOP GAMES DEADLOCKED

At presstime Departments 5620 and 5587, of the American League in NRC Softball, were deadlocked at the end of two games of the playoffs, with the third and deciding game scheduled for last night.

In the playoff, 5620 took the first, 8-5; and 5587 the second tilt, 1-0.

Meanwhile, in the National League, three teams — 3270, 5515 and 9340 — were battling for winning places in the playoffs. Departments 3230 #1, 5501, 5585 and Lynwood were nip-and-tuck for fourth spot in the league. The first four teams in league standing will compete in a single game playoff to determine the National League winner.

Also scheduled to determine a championship team by the time this issue of the News hits the stands was the Night Shift League. Top two teams in the league vying for the championship were Departments 5501 and 5437.

At the end of the league playoffs, the winning team in the National League will enter a best two out of three-game series with the American League champs. Winner of this series will then battle the Night Shift pennant-winner in a two out of three Series for the plant championship.

American League players who ended the season with better than .300 batting averages were:

Name	Department	Average
T. White	5260	.388
G. Hayes	5353	.380
Clayton	5530	.375
J. Jones	5587	.363
T. Moore	5587	.359
Graham	5587	.346
Luymes	5587	.333
Gibilisco	5620	.318

Hoedowners Practicing On Sundays

The NRC Square Dance Club. under direction of Commissioner David Dyer, is holding musical sway at the NRC Clubhouse Annex every Sunday from 7:00 to 10:00 p.m.

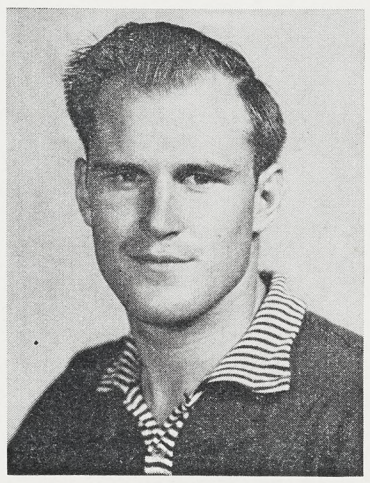
The new series, open to both day and night shift Norcrafters, is designed as a "refresher" course for the intermediate hoedowners.

Norcrafters who feel they are a little rusty on the tight turns and complicated routines should come on out and form their squares at the beginning of the new group. There is ample parking space north of the Annex. All Norcrafters, their families and friends are welcome.

As soon as sufficient demand is established, a new class for beginners will be inaugurated.

Norcrafters interested in the formation of such a class are urged by present hoedowners to turn in their names to PA&S offices.

Florida



R. L. McALPINE is the newly elected NRC vice-president at Florida. "Bud", as he is known to the folk at AFMTC, is a two-year Norcrafter; was active in starting the Gun, Bowling and Dancing clubs at that facility. NRC members anticipate a full and successful season with Bud as headman. Congratulations! H. I. "Oley" Johnson preceded Bud, and got extensive program started.

Night Shift Keg Loops Issue Call

By Joe Cribbs
President
Northrop Recreation Club

Toppling of ten-pins continues to echo as NRC Winter Leagues get under way. There's a special call out for after-dark Norcrafters to bowl in the Night Shift Leagues.

There are openings for night shift keglers in the Trio Scratch League, bowling at 10:30 a.m. Wednesdays at the Vermont Bowl; in the Handicap Mixed Foursome loop that meets on Wednesdays at two a.m. at the same location; in the Handicap Mixed Fivesome, which spills the maple at the Hawthorne Bowl after work (2 a.m.) on Fridays.

The night leagues — the ones after work—can be the solution to Norcrafters who say they're too wide awake at two to get to sleep anyway . . .

In the distaff kegling circles, the news has come out that the Ladies' 450 Scratch Trio League has been changed to a 405 Scratch League, enabling additional women to take advantage of the play. This loop meets on Tuesdays, 6:30 p.m., at the Torrance Bowling Academy.

* * *

A release from the State Department of Fish and Game reveals a couple of items which might interest Northrop sportsmen.

First concerns the sardine—the Fish and Game Commission has officially acknowledged that there are virtually no sardines left off California's coast by refusing to allow any reduction permits. The take dropped from 355,000 tons in 1950-51 to a mere 3,600 tons last year . . .

The other item concerned the Department's efforts to establish Salton Sea as a sportfishing area . . . In that connection, taking of shellfish has been temporarily prohibited to allow clams and oysters to establish themselves in the huge inland area . . . Good news for the future!

* * *

'Twas John Pawlicki who took the prize-winning 90-pound bat ray mentioned in the last issue of the News, Eddie Truax, PA&S, reports . . .

PLANT TOURNEY FINAL PLAYOFFS SLATED SUNDAY

Upwards of seventy-five golfers participated in the first round of the NRC Golf Open Tournament now under way at Western Avenue.

Final round playoff is next Sunday, September 27, starting at 11:30 a.m., with the last foursome teeing off at 2:00 p.m.

First and second place trophy winners in four flights will be decided, as well as plant champion and runner-up.

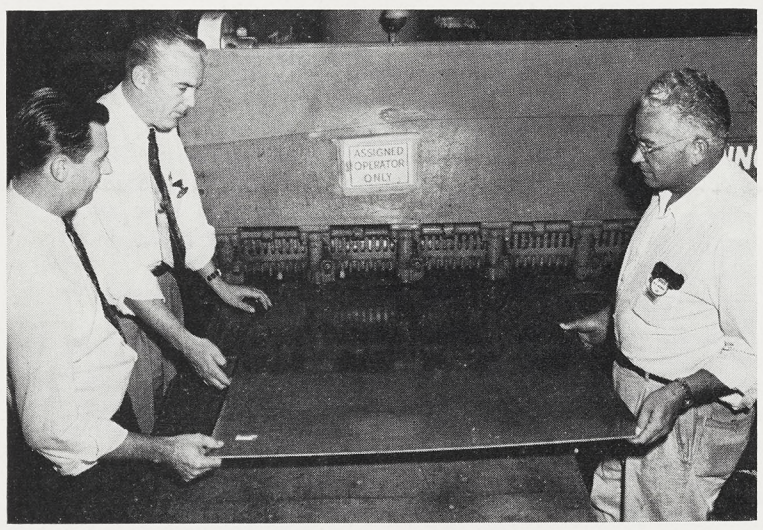
THE Northrop Scene BY DAY AND NIGHT

Luau Ontario Style

RESOUNDING SUCCESS was Ontario's third anniversary birthday party, held luau-style recently. Complete with birthday cake and other gustatory delights, party attracted many Norcrafters from main plant, as well as from Ontario. Here Mildred Carpenter and Jean and Jack Haines, Ontario; John Breneman and Harry Clark, Hawthorne; Ernie Lawson, Ontario; John B. Clark, Hawthorne; and Barry Smith, Ontario, demonstrate unanimous admiration of cake bearing three candles. Held in Azusa, party was dinner-dance.

Toastmistress International

TOASTMISTRESS officers and charter members are shown at first meeting following presentation of Charter 519 from International Toastmistress Clubs. From left, seated: Juanita Hippler; Louise McCulloch; Elsie Hicks, club representative; Dorothy Culverhouse, vice-president. Standing: Thelma Barwick; Betty Claybaugh; Lola Locke; Peggy Barber; Marie Louise Sauer, president; Barbara Pritzkat; Rona Jefferson, secretary; Vi Murphy, treasurer; and Margaret Mink. Charter members not in photo are Marjorie Perry, Jean Sweeny and Elise Williams. Club membership is open to all lady Norcrafters and wives or friends of Norcrafters. Club meets first and third Thursdays at NRC Clubhouse from 5:00 to 6:30 p.m. For more information, call PA&S, extension 637.



JOINING MAT CON in saving time and material is C. C. McGill, leadman in Sheet Metal Fabrication. "Mac" is shown explaining to Wayne Morrison, left, assistant superintendent, and Bart Maloney, general foreman, how shearing of plastic sheets—his suggestion—is better than sawing—the original method. Conservation program moves ahead!

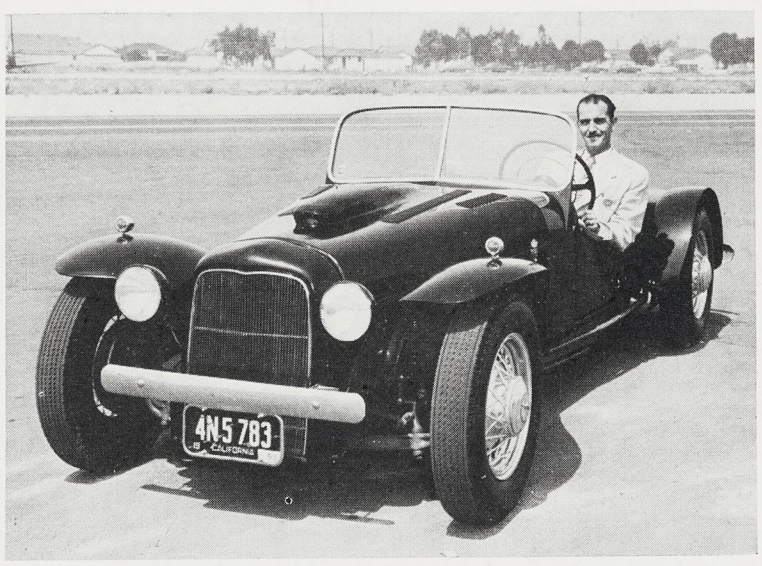
Wards At Work

THE WARDS—family of five and all Norcrafters—line up to clock in at Plant One. With time card in clock is daughter Pat Ward Welton, Inventory Control, followed by Dorothy Ward (mother), Tooling; Lyle Ward (father), Accounting; twin sons—Warren "Lefty", Sheet Metal, and Wayne "Red", Tool Control. Lyle hired in first, almost three years ago, followed by Pat, whose husband, Ronnie, is ex-Norcrafter.

Florists Fine

NRC FLOWER CLUB is the newest addition to the rapidly growing list of women's activities. Attending the first formative meeting are, from left: Lois Ferguson, Leslie Greer, Florence Poynter, Kay Capel, Mary Nelson—acting commissioner, Mary Soeurt, Jenny Cox, Grace Gomes and June Bright. The evening was highlighted by two color films, "Gardenias" and "Gardens of England". All lady Norcrafters and wives or friends of Norcrafters who are interested in cultivation and arrangement of flowers or corsage making are invited to join the club. Meetings are held at the NRC Clubhouse on first and third Tuesdays, 7:30 p.m. Next meeting will be October 6. For further information regarding the Flower Club, call Personnel Activities & Services, extension 637.

Domestic "Foreign" Car



BACKYARD "JAGUAR" piloted by R. W. "Robbie" Robinson, supervisor, Quality Control general office, was built in 16 months by "Robbie" and pals, Hal Hunsberger, former commissioner NRC Sports Car Club; and present "comish" Bruce Venier. Hand-formed, without tooling, car rivals British imports. Rear deck and air-scoop are fibreglass bonded to steel; has stock Ford V-8 engine on stock 1933 Ford frame. It weighs 2430 pounds, is upholstered with a new material called Naggahyde (synthetic leather).

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, October 7, 1953

Fire Prevention Week

(See Page 2)

NRC Art Show

(See Page 3)

FIRE LADDIES POSE PROUDLY

THE NORTHROP FIRE DEPARTMENT lined up solidly behind Fire Prevention Banner which now adorns firehouse door signaling to Norcrafter passers-by that National Fire Prevention Week is here. Kneeling, in front: Walter Curtis, Don Nelson, Joe Pettinato, and R. E. Bates. Standing, from left, Bill Ebert; J. G. Williams; F. R. Erbs; E. C. Hockenberry; John Clarke; L. A. Bowman; E. D. Armstrong; Hawthorne Fire Chief Joy West; E. W. Moss; Captain L. G. Baldini; Mike Belitz, chief of Northrop Fire Department; Captains J. J. Brennan and W. B. Sahli; Inglewood Battalion Chief C. L. Linfield; E. H. Warren; H. B. Jackson; S. L. Conley; L. A. Dart; J. B. Trinity; W. F. Staub; I. W. Martin. Missing from photo are regular firemen Roy Hanold, Ed Miller, John Olexsy, Hubert McNamara, A. Y. Brown, and George Dutcher. Department keeps 24-hour, seven-day watch over Northrop Field; is as well-equipped as fire departments of many small cities.

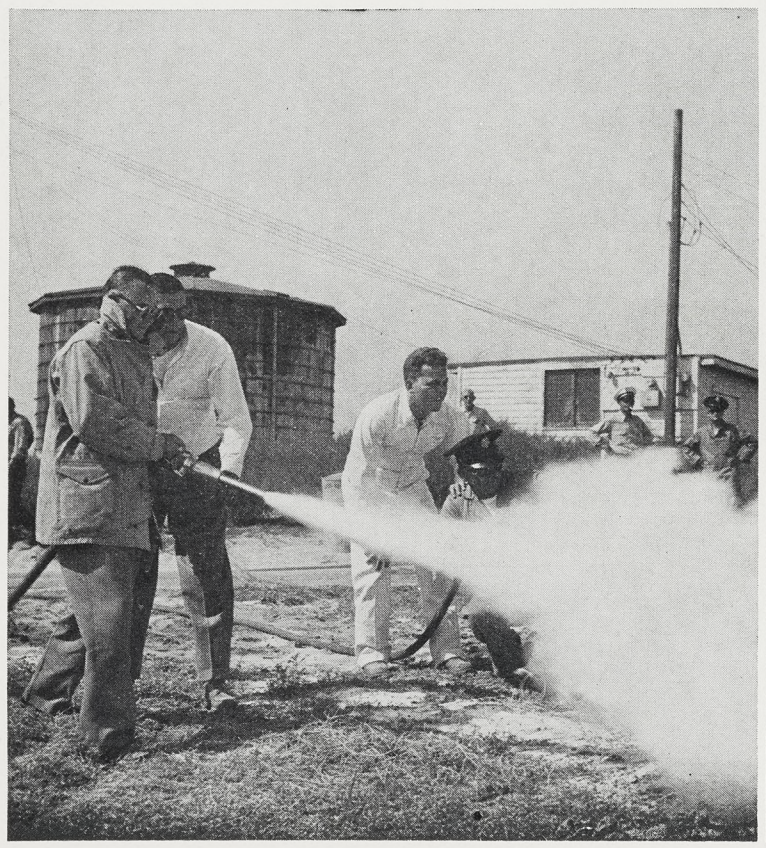
STAUNCH AID to regular firemen comes from auxiliary department, made up of Maintenance department Norcrafters, who answer every call. A representative group is shown at left with fire department heads. From left: O. J. Aggen and C. L. Shipp (5165); J. R. Cote (5161); Captains L. G. Baldini, J. J. Brennan; Fire Chief Mike Belitz; Captain W. B. Sahli; Thorlief Normann (5161); and V. N. Weber, of Department 5165.

DIAL 2211–!

Fire Prevention Week message from firemen—is gentle reminder to Norcrafters of the proper procedure for calling in (via phone) to report a fire:

1. Dial 2211 (listed on every phone).
2. Give the zone number (also listed on every phone).
3. Give full information regarding location.
4. Stand by to help direct firemen to the scene.

The procedure is outlined in "Working With Northrop".



DEMONSTRATION of new equipment at Ontario last week ushered in Fire Prevention Week activities. Representatives of Ansul Chemical Company showed operation of new truck. In photo, W. I. Mohler, left, and T. E. Maust, right—both Ontario firemen—operate under guidance of Ansul reps Dick Robinson and Glenn Wilpolt. In background, right, Ontario fire department Norcrafters Lieutenant Bill Giles and J. M. Schock watch effects of CO2.

Equipment Show Feature Of Fire Prevention Week

Concurrent with the nation's observance of National Fire Prevention Week (October 4-10), Northrop's fire department is intensifying its already effective fire prevention efforts throughout the plants.

Topping the schedule this week are displays of fire extinguishers and other equipment at Plants One and Three. Displays are on exhibit at Plant One today, at Plant Three tomorrow, and back at Plant One on Friday. Locale is the cafeteria area of both plants.

That the fire prevention efforts of firemen—combined with cooperation from Norcrafters—have paid off is amply demonstrated by the fire loss ratio, which, in comparison with that of other aircraft plants, is exceptionally low.

"There are really three fire departments in existence at the Hawthorne plant," Ed Burke, chief of Plant Security and Protection, points out. "Each can operate alone, if necessary."

The regular fire department, headed by Chief Mike Belitz, maintains a 24-hour, seven-day watch over the plant and the adjacent airfield. The size of the department is comparable to that of many small cities.

Helping the "regulars" are the auxiliary department—composed of Maintenance Norcrafters—and the volunteers, who come from all divisions. The former respond to alarms anywhere within the plant; the latter operate within their own divisions. All are thoroughly indoctrinated in fire-fighting techniques.

The fire department's operations are further augmented by the work of Safety-Conservation committees and Safety department representatives. Firemen often sit in on S-C committee meetings to act on recommendations which involve fire prevention.

(In carrying out some of their operations, safety engineers also work hand-in-glove with firemen, for maintenance of safe working conditions necessarily often involves fire prevention measures).

Ontario's observance of Fire Prevention Week received a shot in the arm last week with the receipt of several new units of fire-fighting apparatus, Lieutenant Bill Giles, in charge of that facility's department, reports.

An Ansul crash truck, a "125" crash truck, and an 1800-gallon tanker joined the fleet there within the last two weeks.

Coincident with the arrival of the Ansul, a demonstration was held which was attended by representatives of a number of industries in the area and by city officials.

Norcrafters visiting the displays at the Hawthorne plant were urged by fire department personnel to ask as many questions as they wanted of the smoke-eaters who man the exhibit.

Northrop News
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JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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PERFORMANCE PROGRAM

COMPETITION INCREASES AS CHARTS POSTED

The Performance Competition program gained impetus in Manufacturing and Materiel division during the past two weeks with the posting of easily-readable performance summaries in competing departments.

The plan was first announced to Norcrafters in the Northrop News on September 23.

Direct departments received summaries showing their standings in seven categories—direct labor efficiency; schedule compliance; quality; good housekeeping; indirect salaries and wages; attendance; and safety. Indirect departments are rated according to the last four elements.

As explained by Kenneth P. Bowen, vice-president in charge of Manufacturing, the program is aimed at more efficient production of airplanes for the Air Force.

All the elements in the program have been under constant surveillance for some time, Bowen remarked, but they have been combined into the program to give departments a summary of performance without consulting a number of sources.

The program was devised by Ron Hall, executive assistant to Bowen; Hall is administering the program.

Originally supervisory personnel in direct departments received indoctrination in the program in meetings with Hall; during the past week indirect department supervisors have received the same briefing.

Cliff Hindle, Industrial and Plant Engineering, has been named coordinator of the good housekeeping program in the performance competition.

Norcrafter Hindle is extending the good housekeeping element in indirect departments in much the same manner as the program now in progress in Factory departments. The latter competition has evolved into a tight battle for top standing among Norcrafters, Gary Hard, who coordinates that program, remarks.

First Good Housekeeping poster-award winner was Department 5620, Plant Two; August winner was Department 5530 (see picture below).

September winners in the factory competition were about to be announced as the Northrop News went to press.

Seventh Annual Art Show Scheduled for November

By NRC Reporter

The Seventh Annual edition of the Northrop Purchase Prize Art Exhibit will take place November 23 to December 18, it has been announced by Paul Nelson, NRC Art Club commissioner.

Norcrafter artists who have traditionally set an extremely high standard of excellence for paintings during the years of the exhibits, will reach even greater heights this year, it is prophesied. Participation will also go over the top, according to Commissioner Nelson. The company personnel rolls are now at an all-time high. All outside facilities—Edwards, Ontario, Florida and Anaheim—will swell the number of entries to a record figure.

Northrop Art Show is open to all Norcrafters and their immediate families (husband, wife, son or daughter). Entry rules are available at Personnel Activities & Services. Plants One and Three.

Deadline for entry is November 19, at which date paintings, framed and ready for hanging, are due at Personnel Activities and Services, Plants One or Three. This leaves 43 days for Norcrafter artists to prepare paintings for the show.

Purchase Prizes for the three top paintings, as judged by a jury of internationally-known art critics, are $100, $75 and $50. In addition, there will be seven Honorable Mentions (art materials given by NRC) for paintings selected by the jury.

Also, there will be a Sweepstakes award — a big trophy — for the best painting as selected by the Norcrafter popular vote.

Added feature of the show is the Junior Division, especially for original work of Norcrafter sons and daughters who are under 14 years of age on the deadline date—November 19.

As to a hint on art subjects that might win — there is no pattern. Past winners have been on such widely diversified subjects as boats, street scenes, portraits, pastoral and industrial scenes. Excellence of rendition and interpretation has always governed the jury's choice for purchase prize winners as well as the Norcrafter vote for Sweepstakes.

Complete rules will be published in the next issue of the Northrop News.

Tribute to Norcrafters Received From Alaska

A little more than a week ago the first of the Scorpions destined for Alaska duty were flown to the North by J. J. Quinn, Military Relations, and Colonel R. L. Gould and Major Vic Beckett, Alaskan Air Command.

Last week Vice-president John Myers received from Colonel Gould a letter, parts of which are quoted below:

HEADQUARTERS ALASKAN AIR COMMAND
APO 942, c/o POSTMASTER
SEATTLE, WASHINGTON

21 September 1953

Mr. John W. Myers
Northrop Aircraft, Inc.
Hawthorne, California

Dear Johnny:

Having completed the trip to Alaska—no sweat—I want you to know how much I have enjoyed flying the F-89 and how much I appreciate the many, many courtesies extended to me at Northrop.

The orientation and familiarization given at Hawthorne and Ontario was all that could have been desired, but most of all I was deeply impressed by the genuine friendliness and cheerful cooperation of every member of the Northrop organization whom I met. Every employee, regardless of his position in the company, not only took a personal interest in the "bird" but appeared to feel a personal responsibility for the success and future of the Northrop Company.

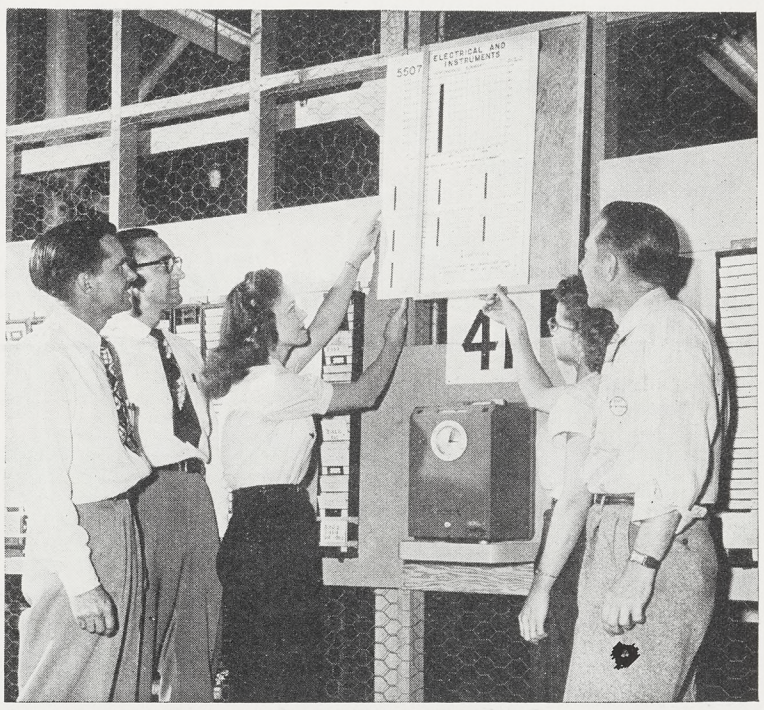
It helped a lot to have J. J. Quinn with us. He did a fine job introducing the boys . . . to their new weapon . . . Your tech reps Mark Berry and Hank Waklee were in the front line of the reception committee . . . ready to help wipe off the new "birds" and get them ready for the transition grind . . .

Sincerely,
s/Robert L. Gould,
Colonel, USAF
Special Assistant to the Commander.

(Ed. note:—When the first modified Scorpions were flown to Truax Field, Myers was the recipient of a similar letter from Lieutenant Colonel Vic Milner, highly complimenting Norcrafters for their work on the Scorpion. The letter was published in the Northrop News of May 6, 1953).

First Performance Chart Postings Made in Shops

ONE OF FIRST performance summary charts in Manufacturing and Materiel divisions' Performance Competition program was hung in Sub-Assembly and department Norcrafters took immediate look. From left: Doris Stultz; E. F. Rolf, foreman; Lorraine Downs, department clerk; E. L. Drapeau, assistant foreman; and G. W. Harter. Tool Crib attendant looking on is Viola Hansen. Charts slide in or out of racks. Program was first announced two weeks ago.



IN ELECTRICAL AND INSTRUMENTS department above scene was repeated as Ron Hall (second from left), who administers program, delivered chart. D. B. Trimble, foreman, is at left; Department Clerk Frances Varney slides chart in rack; Leadgirl Frances Ford, Assistant Foreman N. L. Westbrook watch, begin to discuss figures shown on chart.

GOOD HOUSEKEEPING plays part in Performance Competition program. In Factory departments, Engineering Lab Services (5530) took August award in plant, with Departments 5501, 5586, and 5515 as runners-up and sectional winners. Here Gary Hard, coordinating program, presents poster to Don Swift, department head. Chuck Shelly, left, and F. W. "Bob" Lloyd, general superintendent of Manufacturing Operations Administration, look on in front. back row: Ben David; Larry Pieper; Harvey Baker; G. F. Younkin, nights; Arthur Ohlemacher; Doug Craig; John Breneman, assistant factory manager, nights; and Ted Carroll. All, unless otherwise noted, are supervisory personnel in Engineering Lab Services. The July winner was Department 5620, Plant Two.

Blood Bank Visit Slated For Northrop November 3

For the fourth time this year, Norcrafters will be given the opportunity on Tuesday, November 3, to become blood donors to the Northrop blood bank.

Areas to be solicited for the next mobile unit visit will be Plant One (including Air Force personnel) and Plant Two.

The Northrop Blood Bank is maintained by the Red Cross Blood Center and is available to Norcrafters and their immediate families in time of need. When blood is needed, Norcrafters should tell their doctors or the hospital staff that they are members of the Northrop Blood Bank; or call Personnel Activities and Services, extension 637, and they in turn will contact the Red Cross.

In the next few days, department clerks will distribute application cards to be filled out and returned to the clerks or to Personnel Activities and Services. Volunteers will be notified of appointment time at bank by their department heads. Shuttle service (via station wagon) will again be supplied to the mobile unit at the NRC Clubhouse to cover both day and night shifts (9:00 a.m. to 6:30 p.m.).

New Bus Schedules Revealed

The recent executive bulletin describing bus schedules between Hawthorne and Ontario served to inform many Norcrafters of the availability of transportation for business purposes between the two plants.

The schedule calls for two round trips daily, with the first vehicle leaving Hawthorne at 8 a.m.; arriving at Ontario at 9:30; leaving there at 9:45; and arriving at Hawthorne at 11:30 a.m.

The second round-trip begins at 12:30 p.m., arriving at Ontario at 2:15 p.m. It leaves International Airport there at 2:30, and is back at Hawthorne by 4:15 p.m. Starting and terminal point of the runs is the Transportation building adjacent to Gate 5A, Plant One.

The service is widely used by Norcrafters for delivery of small parts and mail. Transportation of personnel can be made more comfortable, J. N. McNamara, Transportation department, advises, if Norcrafters will inform that department in advance of their intention to travel.

Better accommodations can be provided the riders, he stated, if the department is aware of the need; with no personnel scheduled to go, he pointed out, it is very likely that a truck would be used, rather than a station wagon or other means of transportation.

Charles Eyres Wins Ducats To Big Series; Ernie Graf Watches Games on TV

From the two vantage points from which millions of Americans watched World Series play, two Norcrafters last week were witnesses to the annual classic—one at the games, the other at his TV set.

Charley . . . right there!

Happily occupying box seats at the first four tussles were Engineering Norcrafter Charles Eyres, qualifications engineer in Specifications, and his wife, Dorothy.

The trip to baseball's biggest series came as a happy adjunct to Charley's vacation, which he had postponed several times. Charley won the trip, and the box-seats, and a four-day stay at New York's Ambassador Hotel by writing the top essay in TV station KLAC's Sports Forum contest on the subject—"Is Los Angeles prepared for major league baseball?"

As one of seven or eight weekly winners, Charley also won a season ticket to UCLA home football games, but the series award was the crowning one.

Eyres was accompanied not only by his wife but also by Brian, 9 months, and Barry, 2 years, so that the whole family enjoyed the fruits of victory. In New York, and en route — in Chicago—the folks will visit with Charley's and Dorothy's families.

A rabid baseball fan, Eyres wrote convincingly for the affirmative, and the judges awarded him the top weekly prize. The question was discussed on the weekly panel, which was headed by Paul Zimmerman, sports editor of the Los Angeles Times.

Ernie Graf, veteran Norcrafter, who is department clerk in the Welding department, traditionally chooses World Series time for his vacation, all other things being equal . . .

Ernie . . . . . via TV

True to form, Ernie last week was enjoying his vacation right in front of a TV set, enjoying the games with an enthusiasm that matched anyone's in a box seat.

A real fan, Ernie believes there's nothing quite like the World Series.

And maybe he's right . . .

December 5— Important Date Big Time Coming Don't be Late—

SEMINAR ON NEW MATERIAL called Teflon was recently followed by luncheon given in honor of O. K. Graef, president Graef Engineering Company, makers of the heat resistant material. Above, from left, are: Harold M. Blue, Power Plant Test; O. K. Graef; J. A. Van Hamersveld, supervisor, Producibility Engineering; J. D. Matthews, Project Office; H. D. Childers, supervisor, Process Plastics; W. L. Collins, supervisor, F-89 Power Plant; M. E. Boggs, Missile Power Plant; and E. K. Reese, supervisor, Missile Power Plant.

Teflon--New Plastic--to Aid High-speed Aircraft

Another new material to aid engineers in dealing with the thermal barrier was the subject of a seminar held at Plant III.

Attended by 45 Northrop engineers, the seminar was given by O. K. Graef, president, Graef Engineering Company, Downey, California, on Teflon, a new plastic material in the elastomer classification.

Graef outlined the many uses of the new material, which may be utilized for tubing; sheeting; or for tanks. It is one of the most inert materials in existence and will be used in special weapons applications where corrosive substances must be conveyed or carried.

Among other advantages is the extreme temperature range within which it may be used. Temperatures as low as —90° F do not interfere with Teflon's function nor does the high temperature of 650° F.

A chapter in the Northrop Design Handbook will be devoted to this and other plastics.

THE COVER PICTURE

Cover picture for this issue shows F-89D airplane over Puente Hills area as pilot Rod Close started his let-down for Ontario flight field.

Picture was taken by Paul Wheeler from another F-89 piloted by Rol Owen.

This particular shot was one of a series taken recently by Paul over the California coastal area to show power and grace of this latest in the F-89 series.

Bold Bears Burglarize Bellevues' Bread Box

Little "Muggsy" Bellevue, son of John Bellevue, supervisor, Engineering Publications, will not have to read the fairy tale of "The Three Bears". He now has a version all his own, since the family visited Yosemite.

John had dutifully locked all edibles in the family car the first night—but the second evening he was comfortably abed in his tent before he thought of the matter. Wifely prompting by Dorothy Bellevue was met with a muttered, "There isn't anything there a bear would eat anyway." (Dorothy, incidentally, is former News secretary — Ed. Note).

At 4:00 a.m. the family was awakened by a snuffling sound outside the tent. John unzipped the tent flap and was confronted by a small bruin who sat facing him, happily munching the contents of a box of raisins. All viewed the bear in the rays of a flashlight until bruin, alarmed by the light, fled the camp.

One hour later a repeat performance was staged by a middle-sized bear who blew his hot breath in John's face when he stuck his head out of the tent. This one had uncapped a jar of jam and was "having a ball" with the gooey contents.

Again they viewed the bear—the bear viewed the Bellevues—and then the bear departed.

Still later came loud blasts from an auto horn, a huge commotion, and loud wails of anguish from a neighbor.

This luckless soul had dutifully put all food into his convertible. A great big bear had climbed in to sample the goodies, but in doing so, sat down on the horn button.

Startled by the horn's blast Ursus Horibilis stood up on the front seat and went right through the cloth top of the convertible.

Thus do the Bellevues feel that their loss of a box of raisins; a jar of jelly; a loaf of bread; and a pound of butter was slight—as compared to the hundred-odd-dollar repair job facing the neighboring camper.

"And there I was with my night-cap akimbo when some great big bears burgled our bread and butter and stole the jam."

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office. (Department 4280, Mail Zone 20).

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)

WESTERN & ROMAINE OR SANTA MONICA BLVD. (Travel on Western or Van Ness or Crenshaw), Hollywood. W. J. FORBELL (5234-17, Ext. 1809), HO 5-9121. (12-1 & 3-1)

SUNSET & ALVARADO (Room for two persons, Alvarado to Olympic to Crenshaw to plant), Los Angeles. EDWARD MANN (5620-56, Ext. 2233), DU. 3-6776. (12-1-1)

(Zone 2)

WESTERN & CENTURY, Los Angeles. GEORGE ADAMS (5161-93, Ext. 548), PL. 5-1269. (12-1-2)

(Zone 3)

ATLANTIC BLVD. & POMONA BLVD. (Wish to enter a car pool plan), Los Angeles. M. A. EALY (5587-337, Ext. 2236), UN. 8-5415. (12-1-3)

(Zone 5)

ARTESIA BLVD. & ASHWORTH, Artesia. FRANK ETTINGER (5588-77, Ext. 522), TO. 5-2439. (12-1-5)

(Zone 6)

AMERICAN AVE. OR ATLANTIC. (Go on Willow to Main and up Main. Will pick up or meet anywhere between Willow on Hill and Magnolia, or will rotate cars in car pool), Long Beach. JOYCE SOWARDS (5128-29, Ext. 1946 or 1961), LB 700-601. (12-1-6)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)

WESTERN & ROMAINE or SANTA MONICA BLVD. (Travel on Western or Van Ness or Crenshaw), Hollywood. W. J. FORBELL (5234-17, Ext. 1809), HO 5-9121. (12-3-1)

(Zone 3)

AVALON BLVD. & 89TH, Los Angeles. MARION GRAHAM (5503-87, Ext. 2681). PL 8-7488. (12-3-3)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 4)

WESTERN & 92ND or vicinity, Los Angeles. KATHLEEN EMGE (9320-37, Ext. 2151), PL. 3-6744. (13-1-4)

(Zone 11)

EL SEGUNDO or BROADWAY & RAMONA, Hawthorne. JOAN M. KMIECIAK (5100-27, Ext. 1475), OS. 6-5057. (13-1-11)

(Zone 12)

VENTURA & TOPANGA (Room for 3) (Route: down Topanga Blvd. to Northrop via Pacific Coast Highway), Woodland Hills. J. M. HERRINGTON (6620-2, Ext. 1519 or 2126). (13-1-12)

SUNSET & LIVORNO (Via Playa del Rey), Pacific Palisades. JOAN CLARK (5150-24, Ext. 2325). (13-1-12)

(Zone 13)

WESTWOOD & WILSHIRE BLVDS. (Have space for 2 or 3 riders from general vicinity of Westwood Village), Los Angeles. M. M. ARNOLD (5112-30, Ext. 1475), AR. 7-0285. (13-1-13)

(Zone 14)

CRENSHAW BLVD. & RODEO ROAD (Arrive at Plant 3 about 7:00 a.m. to catch the bus to Plant 1), Los Angeles. KAROLL SHURTZ (3120-21, Ext. 1689-1226-1418), AX. 2-3692. (13-1-14)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)

WESTERN & SANTA BARBARA (South on Crenshaw), Los Angeles. FRED A. FIGGE (3270-78, Ext. 409), AX. 2-6924. (13-3-1)

OLIVE & HOLLYWOOD WAY (Car pool preferred), Burbank. R. M. LAUGHLIN (3310-85, Ext. 421). (13-3-1)

VERMONT & 3RD, Los Angeles. JEANNE M. FLETCHER (3140-841, Ext. 1848), DU. 7-9519. (13-3-1)

(Zone 3)

MANCHESTER & SAN PEDRO, Los Angeles. SUE CARTER (8620-137, Ext. 2011 (37), PL. 8-3178. (13-3-3)

RIDES OFFERED

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 6)

SEPULVEDA & MAGNOLIA, Long Beach. DEAN ZES (3311-80, Ext. 1962). LB 446-75. (13-3-6)

(Zone 8)

CRENSHAW & CARSON, Torrance. JACK E. VAN ORDEN (3270-98, Ext. 1865-1898), FA. 8-9838. (13-3-8)

(Zone 12)

VENTURA & TOPANGA (Room for 3) (Route: down Topanga Blvd. to Northrop via Pacific Coast Highway), Woodland Hills. J. M. HERRINGTON (6620-2, Ext. 1519 or 2126). (13-3-12)

(Zone 13)

SANTA MONICA & CAMDEN DR. (Route: Beverly Hills — Castle Heights — Bagby-Rodeo — La Cienega — Centinela — Prairie — to Plant 3), Beverly Hills. JOHN M. ATKINSON (1810-22, Ext. 2675), CR. 6-3534. (13-3-13)

(Zone 14)

CRENSHAW BLVD. & RODEO ROAD (Arrive at Plant 3 about 7:00 a.m. to catch the bus to Plant 1), Los Angeles. KAROLL SHURTZ (3120-21, Ext. 1689-1226-1418), AX. 2-3692. (13-3-14)

WILSHIRE & LA BREA (Route: Down La Brea to Century—left to Crenshaw to Plant 3), Los Angeles. H. THOMAS RIVAS (3270-62, Ext. 405). (13-3-14)

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 5)

ORANGE & SAN ANTONIO DR. (Will pick up rider anywhere along the way, as long as it's not out of my way), Long Beach. HOWARD QUISENBERRY (6382-225, Ext. 723), LO. 20-4685. (16-1-5)

3:45 p.m. — 12:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 14)

LEXINGTON & SANTA MONICA (Route is across Santa Monica & down La Brea), Hollywood. NORMAN SCHWARTZ (5806-467, Ext. 533), HO. 5-2062. (16-3-14)

3:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 3)

VALLEY & GARVEY, El Monte. W. N. HOOD (5819-875, Ext. 767). (17-3-3)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 4)

ATLANTIC & ABBOT RD., South Gate. JAMIE BARNHART (5585-470, Ext. 1381), LO 9-0907. (18-1-4)

IMPERIAL BLVD. & AVALON BLVD., Los Angeles. GLENN E. WELLINGTON (5503-682, Ext. 2681), PL. 5-1027. (18-1-4)

(Zone 5)

ORANGE & ROSECRANS (Can carry 2 passengers from Zone 5 to Plant 1), Compton. H. A. BUDDETT E(5233-212, Ext. 1456). (18-1-5)

ALAMEDA & IMPERIAL (Can take five passengers at $3 a week), Willowbrook. OTIS SHRINER, JR. (5501-466, Ext. 2200), NE. 2-7969. (18-1-5)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 12)

WASHINGTON BLVD. & VENICE (Lincoln Blvd. to Sepulveda to El Segundo or can go thru El Segundo to El Segundo Blvd., Hours 4:15 p.m. to 12:45 a.m.), Venice. DARRELL R. MILLER (9330-217, Ext. 1471), EX. 6-6316. (20-1-12)

Miscellaneous (Split Shifts)
(Plant 3 and El Segundo Buildings)

(Zone 1)

EXPOSITION & VERMONT (Hours: 5:15 p.m. to 1:45 a.m.), Los Angeles. WILLIAM O'RORK (9350-249, Ext. 2637), RE. 4-9238. (20-3-1)

Rides Wanted

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 2)

MANCHESTER & WESTERN, Los Angeles. RAY APODACA (5503-385, Ext. 2681), PL. 1-2403. (2-1-2)

(Zone 3)

CENTURY or IMPERIAL & VERMONT (Just in evening—one way), Los Angeles. DAREL McNORTON (5232-32, Ext. 1597). (2-1-3)

ATLANTIC BLVD. & POMONA BLVD. (Wish to enter a car pool plan), Los Angeles. M. A. EALY (5587-337, Ext. 2236), UN. 8-5415. (2-1-3)

(Zone 4)

PEACH & LONG BEACH BLVD., Lynwood. WILEY E. WALTERS (5585-156, Ext. 1381), NE. 2-7622. (2-1-4)

CALIFORNIA & TWEEDY, South Gate. JOHN B. HUNBY (5587-111, Ext. 1947), LO. 9-4264. (2-1-4)

(Zone 6)

AMERICAN AVE. OR ATLANTIC. (Go on Willow to Main and up Main. Will pick up or meet anywhere between Willow on Hill and Magnolia, or will rotate cars in car pool), Long Beach. JOYCE SOWARDS (5128-29, Ext. 1946 or 1961), LB 700-601. (2-1-6)

(Zone 7)

WESTERN AVE. & 154TH ST., Gardena. A. M. PERKINS (5252-49, Ext. 1508). (2-1-7)

(Zone 8)

CRENSHAW & 174TH, Torrance. JOHN Q. ZUTTERMEISTER (5373-119, Ext. 2495), ME. 4-0824. (2-1-8)

(Zone 10)

PRAIRIE AVE. & 139TH ST., Hawthorne. HERBERT L. HAPPOLDT (5163-75, Ext. 2071), OS. 6-1842 (2-1-10)

DOWNTOWN HERMOSA, Hermosa Beach. JOHN P. HORRIGAN (5373-150, Ext. 537-1488), FR. 9-2029. (2-1-10)

PIER & HERMOSA AVE. (Work in Dept. 5586, Elect Inspection), Hermosa Beach. E. E. STOCKWELL (7310-108, Ext. 1973). (2-1-10)

(Zone 11)

IMPERIAL & SEPULVEDA BLVD., El Segundo. ROBERT K. SAVAGE (5503-711, Ext. 2681). (2-1-11)

(Zone 12)

LENNOX BLVD. & BURFORD, Inglewood. SHIRLEY PARSONS (5503-184, Ext. 2681), OR. 2-4595 (2-1-12)

LENNOX BLVD. or CENTURY & INGLEWOOD, Inglewood. SHIRLEY SKAIFE (5223-15, Ext. 670). (2-1-12)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 3)

AVALON BLVD. & 89TH, Los Angeles. MARION GRAHAM (5503-87, Ext. 2681), PL 8-7488. (2-3-3)

(Zone 5)

ROSECRANS & LONG BEACH BLVD., Compton. W. A. SWART (5806-111, Ext. 540), ME. 8-5086. (2-3-5)

(Zone 8)

CRENSHAW & 182ND, Torrance. MRS. RAE FREEMAN (5351-61, Ext. 2582), ME. 4-9601. (2-3-8)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 1)

MANCHESTER & CRENSHAW, Inglewood. WILLIAM R. FAUGHT (8100-45, Ext. 2717). (3-1-1)

WESTERN & WASHINGTON, Los Angeles. RAY E. HULTS (5910-881, Ext. 2145), RE. 1-1391. (3-1-1)

CENTURY or IMPERIAL & VAN NESS, Los Angeles. DOROTHY BALDWIN (8400-19, Ext. 2355), PL. 4-4029. (3-1-1)

(Zone 2)

EAST DEL MAR & MARENGO (Will accept car pool), Pasadena. HAL HALL (5128-77, Ext. 1929-1946). (3-1-2)

BUDLONG & 97TH ST., OR VERMONT & 97TH ST., Los Angeles. JUDY POWELL (3460-818, Ext. 1444), PL. 4-2109. (3-1-2)

(Zone 4)

LONG BEACH & FIRESTONE, South Gate. ROBERT G. DAWSON (5587-350, Ext. 1973), LU. 3327. (3-1-4)

(Zone 5)

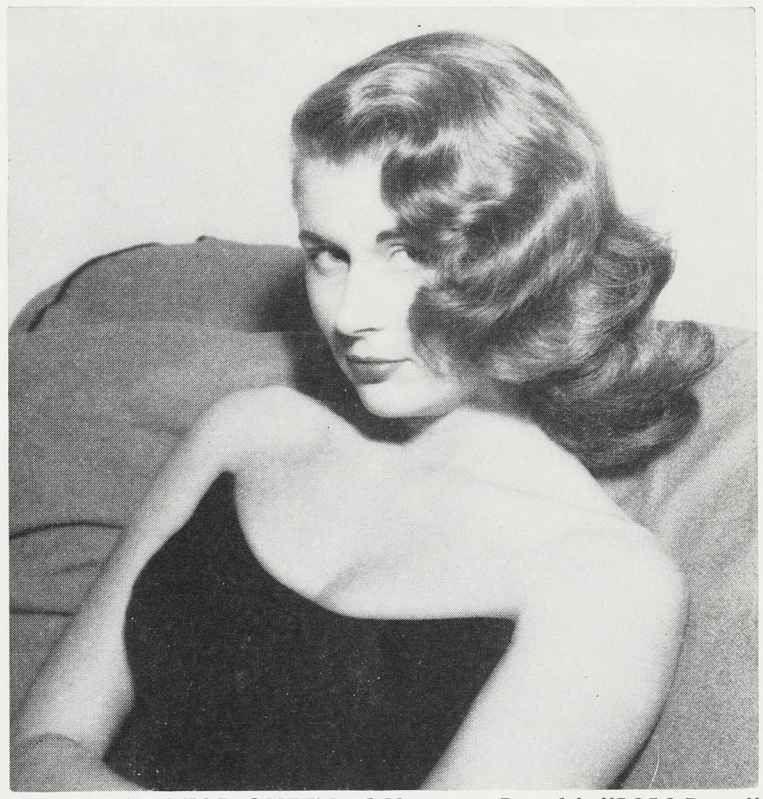
ROSECRANS & NORMANDIE (Desperately in need of ride. Can walk anywhere convenient for driver), Gardena. BARBARA LINEHAN (5113-45, Ext. 1342), ME. 9-2320. (3-1-5)

ROSECRANS & VERMONT, Gardena. LOUISE RICHARDSON (4100-23, Ext. 1740), ME. 4-6403. (3-1-5)

(Zone 6)

MAGNOLIA & 10TH STREET (from anywhere in downtown Long Beach is alright), Long Beach. MARGIT QUILLEN (4220-28, Ext. 224). (3-1-6)

Candidate For Queen



CANDIDATE FOR QUEEN of Hermosa Beach's "1912 Days" this coming week-end is Norcrafter Dolores Feck, Plant Two Specifications. The festival commemorates the forty-first birthday of the city; climax is an old-time ball and show on Saturday night, over which successful queen candidate reigns. During specified periods of week-end merchants will roll back prices to 1912 levels on selected merchandise.

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 8)

COMPTON BLVD. & CRENSHAW BLVD. (Desperately needed), Gardena. BOBBIE TALLEY (9330-71, Ext. 1471), ME. 4-8798.

HICKORY & TORRANCE, Torrance. RITA CHAYKOWSKI (9330-83, Ext. 1471), FA. 8-0233. (3-1-8)

GAFFEY OR PACIFIC (Ride wanted for two going home at 4:15), San Pedro. IRENE FEHER (5352-41, Ext. 1508), TE. 3-9691. (3-1-8)

(Zone 10)

PACIFIC COAST HIGHWAY, OR CATALINA, Redondo Beach. LORRAINE MAJEWSKI. (5127-67, Ext. 678), FR. 2-5646.

AVIATION & COMPTON (Between Aviation & Sepulveda off Marine Ave.), Manhattan Beach. DOROTHY L. WRIGHT (1441-31, Ext. 691), FR. 9-1990. (3-1-10)

RUHLAND & RINDGE or REDONDO BCH. BLVD. & RINDGE (Have to use busses until ride obtained), Redondo Beach. JAMES W. ALEXANDER (9330-75, Ext. 1471), FR. 2-8981. (3-1-10)

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 10)

HIGHLAND & ROSECRANS, Manhattan Beach. EDWARD GAMMON (3230-124, Ext. 780), FR. 2-0930. (3-1-10)

(Zone 11)

LOMA VISTA & MAPLE, El Segundo. BARBARA HACKERT (4100-22, Ext. 2332). (3-1-11)

(Zone 13)

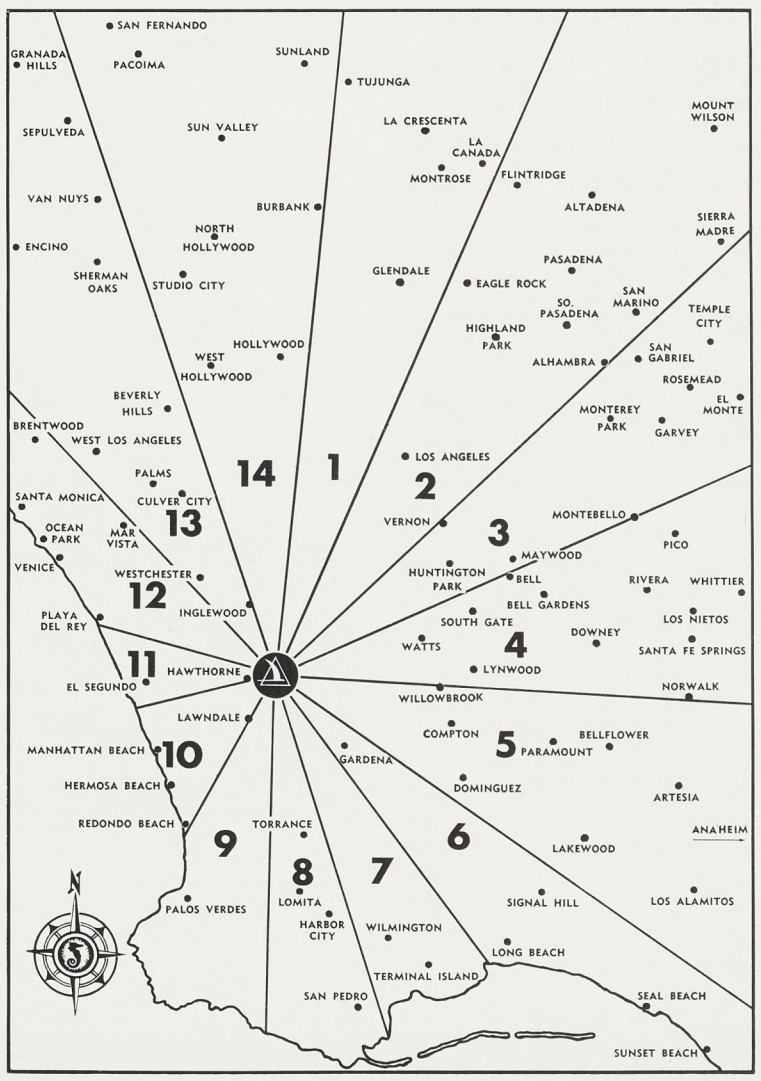
SLAUSON AVE. & 2ND AVE., Los Angeles. MARGUERITE MOSS (6150-42, Ext. 1497). (3-1-13)

SEPULVEDA & ROSCO BLVD. (Want ride or will get in car pool, or will drive my car to Sepulveda & Ventura), Van Nuys. IRENE BAKER (5930-47, Ext. 2498). (3-1-13)

(Zone 14)

CRENSHAW & WEST ADAMS (To arrive Plant 1 by 7:30 a.m.), Los Angeles. C. D. HINDLE (5110-14, Ext. 2364), RE. 1-3376. (3-1-14)

(Continued on Page 6)



Carroll Browne Reaches Tip-Top Scouting Heights

ALL 101 GIRL SCOUT merit badges were earned by Carroll Browne, daughter of Norcrafter Robert Browne.

Carroll Browne, daughter of Mr. and Mrs. Robert M. Browne of Pasadena (he works in Quality Control), has achieved the meritorious distinction of being the first Girl Scout in history to earn all 101 merit badges.

Although the average Girl Scout is encouraged to work for about six badges a year to get up to the minimum requirement of 16 for the Curved Bar (equivalent to the Boy Scout's Eagle award), Carroll has averaged more than 25 a year.

Just one small requirement for the "One World" badge was an interview with the Swiss Consul General, the Spanish Consul and the British Consul, but Carroll's biggest hurdle was in the agricultural field.

Mrs. Browne, who is a scout leader, came to her assistance, however, and all of Troop 399 borrowed a farm for the entire summer and spent from dawn to dusk tending chickens, pigs, goats, cows, horses, geese, ducks, and pheasants.

Carroll, in addition to scouting and maintaining an A average in school, is a versatile musician (see Northrop News, November 21, 1951). She has served on the Student Council, is a member of Forensic Council, an officer in Job's Daughters and an officer in the Girl's Club of Pasadena.

More Going My Way

(Continued from Page 5)

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)

CRENSHAW & SIMMS or PRAIRIE & 116TH ST., Inglewood. OLGA V. SEBASTIAN (6110-35, Ext. 672), OS. 6-4211. (3-3-1)

VAN NESS or CRENSHAW & MANCHESTER, Inglewood. C. A. BROWN (8620-126, Ext. 2011 (37), PL. 8-8747. (3-3-1)

OLIVE & HOLLYWOOD WAY (Car pool preferred), Burbank. R. M. LAUGHLIN (3310-85, Ext. 421). (3-3-1)

(Zone 6)

SEPULVEDA & MAGNOLIA, Long Beach. DEAN ZES (3311-80, Ext. 1962), 446-75. (3-3-6)

(Zone 10)

PACIFIC & 19TH (Would like to join car pool), Manhattan Beach. L. A. WOLSLAGER (3430-22 Ext. 1948), FR. 2-0257. (3-3-10)

HIGHLAND & MARINE, Manhattan Beach. GERALDINE D. KNOX (3310-102, Ext. 462), FR. 2-1396. (3-3-10)

(Zone 14)

HOLLYWOOD BLVD. & NORMANDIE AVE. (Alternate intersection: Sunset Blvd. & Normandie Ave.), Hollywood. EMERY J. BALKOVIC (3410-132, Ext. 1983). (3-3-14)

8:00 a.m. — 4:45 p.m.
(Plants 1 and 2)

(Zone 8)

PRAIRIE AVE. & 176TH ST., Torrance. RITA HARRIS (5406-41, Ext. 2200), FR. 4-4941. (5-1-8)

3:45 p.m. — 12:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 9)

PRAIRIE & 147TH, Lawndale. CLARENCE M. RANCK (7420-287, Ext. 1240). (6-3-9)

(Zone 14)

WEST BLVD. & HYDE PARK, Inglewood. JANE A. CAMPANELLI (5351-235, Ext. 2582), OR. 8-2710. (6-3-14)

RIDES WANTED

3:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 3)

VALLEY & GARVEY, El Monte. W. N. HOOD (5819-875, Ext. 767). (7-3-3)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)

HOOVER & ADAMS, Los Angeles. I. T. HARMAN (5501-401, Ext. 2200 or 1814). (8-1-1)

MANCHESTER & CRENSHAW, Inglewood. JAMES W. SPRING, JR. (5586-260, Ext. 1973), PL. 8-7642. (8-1-1)

(Zone 2)

HOOVER & 78TH ST., Los Angeles. MAMIE PARKER (5351-211, Ext. 2764), PL. 1-9973. (8-1-2)

(Zone 3)

BROADWAY & CENTURY (Need ride immediately), Los Angeles. K. W. PARKER (5507-248, Ext. 526 or 564). (8-1-3)

CITY TERRACE DRIVE & ROGERS ST. (Ramona Freeway toward Puente), Los Angeles. MILTON BUSTAMANTE (5162-451, Ext. 548), AN. 1-8970. (8-1-3)

(Zone 4)

IMPERIAL HWY. & LONG BEACH BLVD. OR IMPERIAL HWY. & CENTRAL BLVD., Lynwood. LLOYD L. TROLLINGER (5588-471, Ext. 1529). (8-1-4)

DECEMBER 5 IS A BIG DEAL

RIDES WANTED

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 4)

ATLANTIC & ABBOT RD., South Gate. JAMIE BARNHART (5585-470, Ext. 1381), LO 9-0907. (8-1-4)

(Zone 5)

BUDLONG & W. 133RD ST. (Can depend on ride every day on time. Call between hours 9:00 p.m. to 2:30 a.m.), Gardena. MILTON EUGENE O'KELLY (5587-285, Ext. 1947), ME. 4-5059. (8-1-5)

(Zone 12)

LA TIJERA & 83RD ST., Westchester. ELVANNAH WUNDERLICK (7210-213, Ext. 2206), OR. 2-8771. (8-1-12)

(Zone 13)

LA BREA & CENTINELA, Inglewood. LORITA LANGWELL (5507-285, Ext. 567). (8-1-13)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 12)

LA TIJERA & 83RD ST., Westchester. ELVANNAH WUNDERLICK (7210-213, Ext. 2206), OR. 2-8771. (8-3-12)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 10)

MANHATTAN BEACH BLVD. & AVIATION BLVD., LIBERTY VILLAGE (Hours 4:15 p.m. to 12:45 a.m.), Manhattan Beach. GLORIA J. CRAGUN (4290-11, Ext. 625), FR. 2-4938. (10-1-10)

NEW CHECKS FIT THE WALLET

TIME, MATERIAL SAVED BY CHANGE

Norcrafters last week received the first of the new, smaller and more convenient-sized checks.

The result of considerable research and study by the Payroll and Finance Machine Accounting groups, the new checks were designed for the convenience of Norcrafters and to conform to the trend away from the former large form.

(See photo on page 8)

By-product of the change is a considerable savings in time and work in the preparation of the checks, the Payroll department reported.

The tabulating machines now running checks can process two in the time it formerly took to run one, George Gillett, Tabuating Finance, said. This more efficient run is made possible by the fact that the check stub, containing deduction information, is attached to the left of the check itself rather than at the bottom, as in the old form.

"The new form is easier handling," George Forbes, Payroll, commented, "and is much more acceptable to banks and merchants. Norcrafters will find it easier to put away in their wallets, too."

Gillett explained that bank proofing equipment, which sorts checks, is generally standardized to handle smaller checks than those formerly issued to Norcrafters, and that in handling large quantities of the old form the equipment needed frequent attention.

The more efficient handling will ease the load on the Finance division Norcrafters, especially on "short" weeks containing holidays. Traditionally, however, the division gets the checks ready on time despite the shorter working week.

Slim-Trim Folk Start New Classes

Attention all girls! Slim 'n Trim Acting Commissioner Dorine Benkendorfer has announced a brand new fall program for the Slim 'n Trim class under direction of Instructress June Robathon.

The class will include posture, carriage, muscle toning, redistribution of weight as well as general exercise. Individual measurement charts will be kept so progress may be noted.

Club meets on Monday evenings at the NRC Clubhouse, 7:30 p.m. All lady Norcrafters and wives or friends of Norcrafters are invited to join the class.

For further information, call Personnel Activities and Services, extension 637.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 637. *NRC Clubhouse is located at* 175 *N. Hawthorne Boulevard.*

BOWLING
Florence Rice, commissioner
Ladies Handicap League in progress at Torrance Bowl, Tues. 6:30 pm.

DINNER CLUB
Cathy Waffel, commissioner
Next meeting Oct. 30, Hallowe'en party (men included).

FLOWER CLUB
Mary Nelson, acting commissioner
Meet first and third Tues. of each month. NRC Clubhouse, 7:30 p.m. New members welcome.

GOLF CLUB
New series of golf lessons now available Culver City Course. Tues. 7:00 pm.

INTERIOR DECORATING
Meet every Thurs. NRC Clubhouse Upholstery instruction provided.

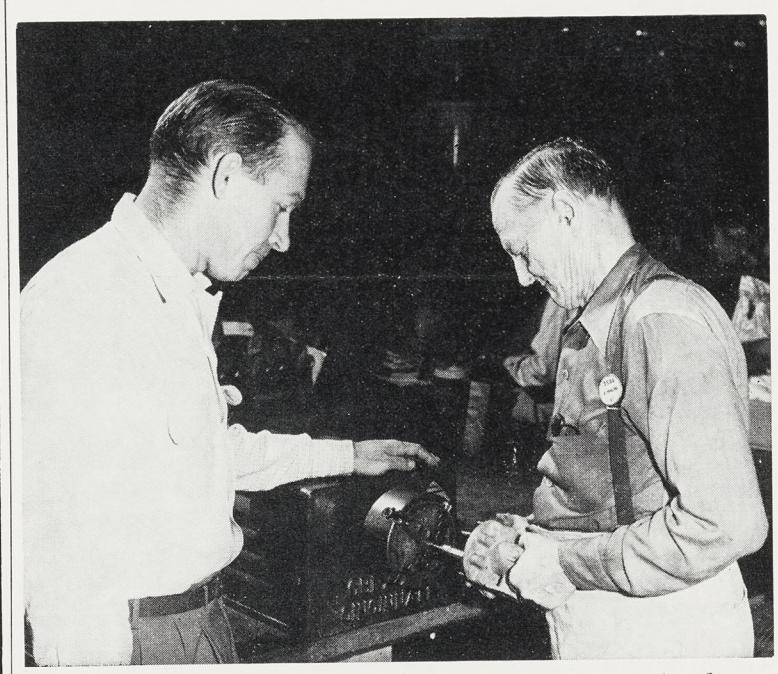
KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m. NRC Clubhouse. Instruction provided.

MARINERS
SENIOR GIRL SCOUT TROOP
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday 7:00 p.m. Scout cabin, 135 Greville, Hawthorne.

SLIM 'N TRIM
Dorine Benkendorfer, acting commissioner
Meet every Monday, 7:30 p.m., NRC Clubhouse.

TOASTMISTRESS
Marie L. Sauer, representative
Meet first and third Thursday, NRC Clubhouse. 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

Suggestion Pays Off



APPRECIABLE CONSERVATION of time was result of suggestion made by Harry Pawling, right, to make easier the insertion of Rosan inserts and studs into manifolds, rings, and other assemblies in Sub-assembly department. Harry, a Norcrafter since 1940, is showing how the tool he suggested adapts a power reamer to the insertion operation. He won sizable award when suggestion was investigated. He is shown with Fred Copeland, an assistant foreman.

Mat Con says

GOOD MATERIAL HANDLING PRACTICES ARE THE RESPONSIBILITY OF EVERY NORCRAFTER

PROTECT ALL MATERIALS

—o— BY —o—

PROPER HANDLING
PROPER PACKAGING
PROPER LOADING
PROPER STORING

—o— PROMOTE —o—

"MORE AIR FORCE PER DOLLAR"

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below. call or contact Personnel Activities and Services, Plant One, 637; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BALLROOM INSTRUCTION
First fall meeting Oct. 24. Everyone welcome.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily, Conference room 1-5 11:00 a.m. lunch period. Plant III 12:15 p.m. Conference Rm. 5.

BOAT CLUB
Harold Senter, Commissioner
Next meeting Nov. 2, 7:30 p.m., NRC Clubhouse. Final plans for dance.

BOWLING (DAYS)
Chuck Carson, commissioner
Tournament planned for Xmas Holiday Season., Dec. 27th thru Dec. 30th.

BOWLING (NIGHTS)
Tony Cardoza, acting commissioner
Present leagues filled. Applications (team or individual) being accepted for Mixed Handicap league planned for Thursdays, 2 a.m., Paradise Bowl.

BRIDGE
Bill Glose, acting commissioner
Meet first and third Tuesdays each month, 7.30 p.m., NRC Clubhouse.

CAMERA CLUB (DAYS)
Walt Darby, commissioner
Next meeting, Friday, Oct. 9, 8:00 p.m. NRC Clubhouse Annex. Combined show.

CAMERA CLUB (NIGHTS)
Adam Slusarz, Act. Commissioner
Next meeting Saturday, Oct. 10, 8:00 p.m., NRC Clubhouse. Election of officers, and first official Print competition. Black & White & Color. Movies.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Room. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (DAYS)
Jim Milne, commissioner
Monthly meets each third Sunday. First Meet October 18, 8:30 a.m., Potrero Club, Inglewood.

GOLF CLUB (NIGHTS)
Bill Levens, commissioner
Tournament planned for late October Watch for starting dates next issue.

GUN CLUB
Dick Wood, acting commissioner
Meet every other Tues., 7:30 p.m., NRC Clubhouse. Next meeting Oct. 13.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m., 1016 No. Market St., Inglewood. Sunday, 9:00 a.m. to 12:00 noon.

PHILATELIC CIUB
George Borton, commissioner
Philatelic & Numismatic combined club meets 2nd & 4th Mondays each month, NRC Clubhouse, 7:30 p.m. Next meeting Oct. 12.

RIDING CLUB
Cliff Snudden, commissioner
Next scheduled breakfast ride, Sunday, Oct. 11, 7:30 a.m., Circle Bar Ranch. Reservations must be in by Thurs., Oct. 8, at PA&S.

SEA SCOUTS
Frank Ziegler, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Oct. 17. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Oct. 30, NRC Clubhouse Board Room.

SOFTBALL
Paul Wheeler, commissioner
League Finals—Day & Night Shift Rosecrans Playground, Oct. 11 & 18.

SPORT CAR
Bruce Venier, commissioner
Meet second Thursday each month, NRC Clubhouse.

SQUARE DANCING
David Dyer, commissioner
Intermediate level dancing with plenty of instruction for "rusty" Squares. Meet every Sunday eve., 7:00 to 10:00 p.m., NRC Clubhouse annex.

SURF FISHING
Ted Griswold, acting commissioner
Meet last Thursday each month, 7:30 p.m., NRC Clubhouse.

TOASTMASTERS (DAYS)
Glen Jackson, representative
Meet every Thursday evening, 6:30 p.m., Western Club Cafe, 15516 So. Western, Gardena.

TOASTMASTERS (Nights)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon. Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Les Squires, acting commissioner
Next meeting Wednesday, Oct. 28, 7:30 p.m., NRC Clubhouse.

WEIGHT LIFTING
Bill Robusch, commissioner
Mr. Jr. California Physique contest & State of Calif. Odd Lift and Novice Weightlift Championships to be held Sat. Oct. 17, 7:30 p.m. Downtown Y.M.C.A. 715 So. Hope, L.A.

PLANT CHAMP PLAYOFF SOON

Ballroom Dancing Class Resumes Activities Soon

Ballroom Dancing classes, discontinued for the summer months will be renewed at NRC Clubhouse beginning October 24, it has been announced at PA&S, with a new type of program offered. Dances will be held every other Saturday evening thereafter.

A five-week course will open the sessions at the NRC Clubhouse; Bill Williams, instructor last year, has been employed by the NRC to conduct the progressive lessons.

The first series will offer general ballroom dancing — swing, foxtrot, and waltz. Fee for the course of five weeks is $2.50 per person, including an exhibition at the first meeting and a contest at the end of the series.

It is planned that the first series will be followed by a course in Latin dances. NRC commissioners guarantee that there'll be room enough for all to dance!

President's Trophy To T. K. Owens

Plant links champion — and winner of the President's Flight in the annual NRC Open Golf tourney—is T. K. Owens, Flight Service, who emerged on top of the golfing heap when the last divot was dug on September 27.

Owens finished with low gross as well as low net to top the more than 75 competitors who had started the grind. Ed Powell was runner-up in the top flight.

In the second, or Vice-president's flight, Tom Williams, Tool Design, edged Wayne Curie, Planning and Scheduling Norcrafter from the Engineering division, for the trophy.

The Secretary's flight was copped by Clyde Blackwell, Engineering, with Wayne Hall, Department 5354, as runner-up; and the Treasurer's flight ended in a deadlock between Bill Moore, Master Planning, and Clyde Myers, Tool Planning.

NRC trophies commemorating the triumphs will be awarded this week.

XMAS TOURNEY KEGLING DETAILS AVAILABLE SOON

NRC Bowling Commissioner Chuck Carson announces that this year will mark the first Annual Holiday Bowling Tournament.

The tourney, open to Norcrafters at all facilities, will be held at the Hawthorne Bowl and will start on Sunday. December 27, with the last event scheduled for Wednesday, December 30.

Handicaps will be: girls, two-thirds to 200; men, two-thirds to 190.

Details and entry blanks will be available at Personnel Activities and Services, Plants One and Three, on or after October 19. Deadline for entry has been set for November 23.

PLAYERS SCORE HIGH AVERAGES

During the past two weeks, league play in the American, National and Night Shift leagues of NRC Softball has ended, and at presstime the respective winners of the leagues were battling to cop the plant championship.

Number one team in the American league is 5620, which defeated 5587 in the final game of a playoff, 4 to 3.

Department 3270 defeated 9340 in the final game of the playoff for the title in the National, 8 to 4. Other National playoff games: 3270 over 5515, 4 to 1; 9340 over Lynwood, 4 to 2.

In the day shift playoffs Tommy White (5620) pitched another no-hit, no-run game to win the first tilt over Department 3270, with the second game scheduled for last Thursday night.

The winning league was scheduled to meet the Night Shift champs, Department 5437, last Sunday, and will again battle next Sunday, October 11, 10:00 a.m. Spectators are welcome at Rosecrans Playground, site of the contests.

National League final standings showed the following ten top batting averages:

Name	Department	Average
Bierne	3230 #2	.458
Hamilton	9340	.455
Brady	3460	.444
Hale	5502	.444
Price	3230 #1	.440
Snyder	3230 #1	.431
Adams	3410	.429
Fritzel	3230 #2	.429
Petersen	Lynwood	.421
Walker	5437	.406

Watch Your Step-Stay Alive! Good Time Coming-Dec. Five!

NRC Mariners Win Float Trophy

NRC MARINERS Dallas Metzger and Janice Brewer (right) traditionaly present trophy and big blue ribbon Club recently won to NRC Prexy Joe Cribbs. Mariners were awarded for best float entered in parade and the ribbon for top booth at Lawndale Optimist Club's "Pirate Days". Dallas and Janice are the daughters of George Metzger, Production Planning, and Harold Brewer, Flight Service. The Mariners have since copped another ribbon (third place) for their float in Hawthorne's Festival of Flight. For the float, the girls made special mast and boom and sails of crinoline for their own 17-foot sail boat which they had, after thorough reconditioning, launched at Alamitos Bay on September 20. Congrats!

Grimes Plan In Pheasant Hunt Season

By Joe Cribbs
President
Northrop Recreation Club

Marshes are being drained—wildlands are being cultivated—domestic and industrial installations are taking more water—and this adds up to tough conditions for the hunter. Something is being done about pheasants, however. Twenty thousand acres in Colusa County's best pheasant hunting country wil be open to hunters for $1.00 daily charge. This is called the Grimes experiment. Proceeds will be used to help local youth organizations to encourage useful civic projects and to promote better landowner-sportsman relations. Twenty-five per cent of the funds raised will be used for pheasant habitat improvement. A total of 750 hunting permits will be available each day in the Grimes area. A similar number of seasonal permits will be sold by mail in advance of the ten-day hunting season. Details are scheduled for next issue. For those who want to make direct contact, write: Sheldon Morris, P.O. Box, Grimes, California. This information is from the Department of F. & G.

Joe Cribbs

* * *

Worthy cause — annual Diabetes detection drive is scheduled for November 15-21. The American Diabetes Association, Inc., will seek to make America aware of the symptoms of this often unsuspected ailment. Support this move by checking with your own physician and by word of mouth. A healthy America is a strong America.

* * *

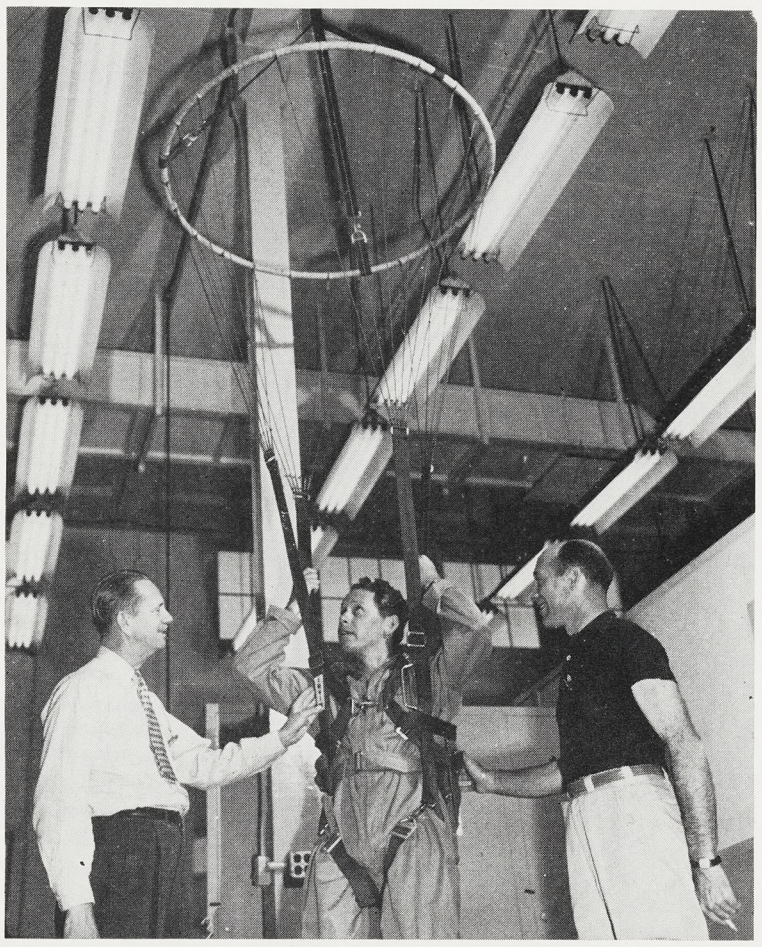
Community Relations — Hawthorne three-day "Festival of Flight" celebration last Thursday, September 24, through Saturday, September 26 was an outstanding mark in NRC books. Clubhouse facilities were turned over to the city for the Queen's Coronation Ball. Charles Boyle, manager of Personnel Activities, was chairman of the Ball while doubling in brass as MC. (See photo on page 8) Hilo Hattie and her Islander group headlined the event. Queen was Miss Edna Mott.

* * *

How about a telescope club here at Hawthorne? The one at Anaheim—Cliff McDaniel, commissioner—is going places, and we don't mean just out into space. Six Anaheim Norcrafters are building their own reflecting jobs of 100-to-150-power and believe me they build them from the raw glass to the rings on Saturn. Anyone interested? Call PA&S (637) with your ideas.

THE Northrop Scene BY DAY AND NIGHT

Newest Para-Trainer



INDOCTRINATION in proper fitting of parachute harnesses is purpose of above device being tested by pilot Dale Johnson. Tom Kennedy, left, head of Flight Crew Equipment section, and Claud McCracken demonstrate usage. All personnel going on flight status are trained on this equipment.

Still Equal in Value

NEW CHECKS made their first appearance to Norcrafters last week (see story, page 6). Result of considerable research by Tabulating Finance and Payroll departments, new check is more conveniently handled by personnel as well as merchants of cities in area. In photo W. P. "Woody" Tonic and Stan Nawoj, who help run checks through machines, discuss new check with George Forbes, seated, Payroll. Comparison shows that new one is about three inches shorter than old.

WINNING FLOAT in Fraternal and Granges Division of Antelope Valley Fair featured scale model of Scorpion. Girls are, from left, Shirley Seymore; Joyce Hankins; Doris Kies, who live in Palmdale-Lancaster area. Clever design around '89 distinguished Antelope Valley-Pomona Grange entry.

Hilo Hattie at Coronation Ball

HI GOOD NEIGHBOR—NRC Clubhouse keys were turned over to city of Hawthorne on occasion of Coronation Ball, feature of three-day "Festival of Flight" celebration. Representing Northrop was Charles G. Boyle, Personnel Activities and Services manager, who acted as chairman of the affair as well as master of ceremonies. He is shown here at microphone with the famed Hilo Hattie, who highlighted the evening. Festival queen, Edna Mott, is standing fourth from left just prior to being crowned. Norcrafter queen candidate Mary Runge (Mail Control) is fifth from right. (See Cribbs' column for more details.)

While Commissioners Meet

NRC AUXILIARY MEMBERS stage informal get-togethers at the Clubhouse while spouses (NRC Council members) hold formal monthly Club meetings. Seated from left, during September meet, are: Pat (Mrs. Joe) Carver, Beth (Mrs. Hal) Hunsberger and Mattie (Mrs. Jack) Akin, each holding prize she won during evening's games. Standing: Hostess Kay (Mrs. Joe) Cribbs, Myrtle (Mrs. David) Dyer, Ethel (Mrs. Roy) Wolford, Margaret (Mrs. Ray) Beste, Estelle (Mrs. Jim) Celoni, Ken Waffel (husband of Cathy), Eleanor (Mrs. George) Metzger, Hazel (Mrs. Bill) Robusch, Emily (Mrs. Chuck) Bija, Dorothy (Mrs. Bill) Patrick, Isabelle (Mrs. Chuck) Carson, Helen (Mrs. Walt) Darby and Margo (Mrs. Louie) Baker. Buffet is served to commissioners and their mates following meetings.

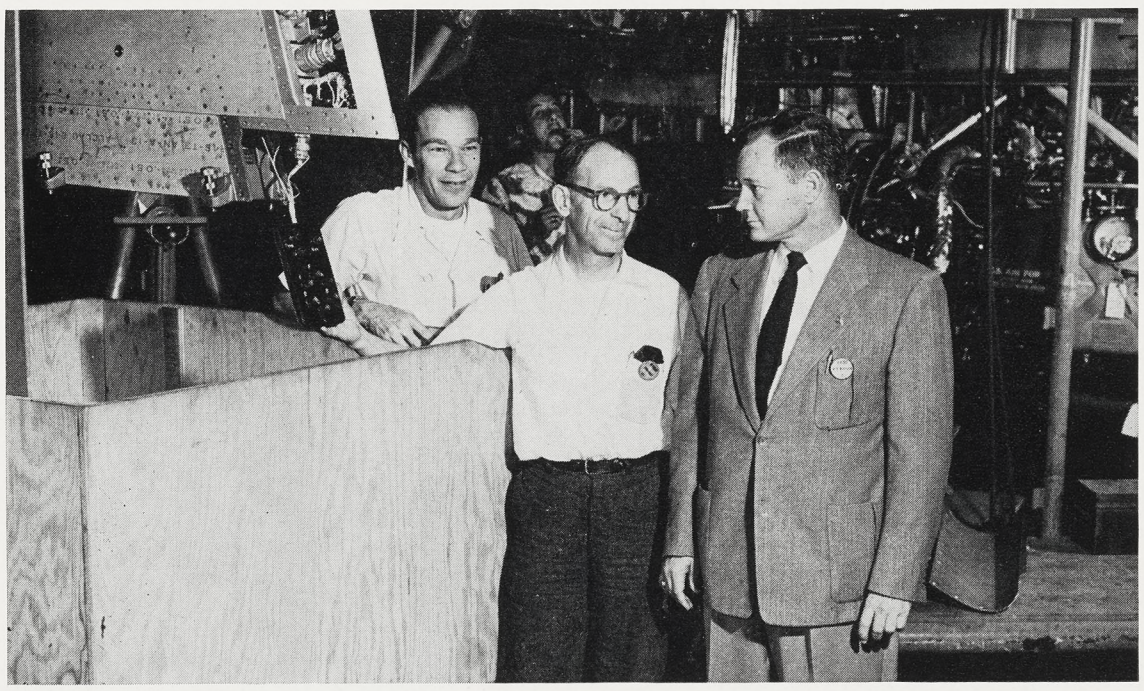
Scorpion Float Wins at Fair

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, October 21, 1953

Norcrafters Rate December 5 Date

TEN THOUSANDTH SUGGESTION IN



SEVEN-YEAR TRAIL of suggestions by Norcrafters is symbolized by gathering above, with E. F. "Charley" Kinney, center, and W.E. "Bill" Wheeler, right, featured. Kinney, a Final Assembly Norcrafter, recently turned in suggestion Number 10,000 to the Suggestion Award department; Wheeler, Tab Systems Control, turned in Number One back in 1946. V. L. Hartung, Final Assembly leadman, stands behind two suggestors while they discuss Kinney's idea of checking out pylon ejection. Large box shown is part of safety feature of the idea. Charley is holding small panel whose lights will show flaws in circuit.

CHARLEY KINNEY IDEA CLICKS TURNSTILE FOR MILESTONE

Rolling steadily along under the impetus supplied by ingenious Norcrafters, Northrop's Suggestion Award Plan last month moved steadily past suggestion Number Ten Thousand.

The distinction of submitting the milestone-making idea belongs to Edson F. "Charley" Kinney, night shift electrician in Final Assembly (5588).

Now being evaluated, Kinney's suggestion recommends the use of a check-out device of his design on pylon ejection. Preliminary reports on the idea indicate that it saves time and material, while maintaining a simple, yet highly effective safety factor.

In accordance with the Suggestion Award Plan procedure of utilizing all possible know-how in evaluating ideas (in addition to Suggestion Award department Norcrafters), supervisors in Final Assembly and Tool Design personnel are helping in the investigation.

The present Suggestion Award Plan began in 1946, replacing the War Production Drive Plan, and it has gained momentum as more and more Norcrafters became acquainted with its benefits.

Almost 3000 suggestions were submitted in 1952 alone, Cecil Callaway, supervisor of Suggestion Award, declared. In the first eight months of this year, he added, almost 1600 ideas were advanced under the plan by personnel.

"The biggest week yet came at the beginning of September," Callaway reported, "with over one hundred suggestions turned in. Kinney's Number 10,000 came in at just about this time."

Cece recalled, too, that suggestion Number 1 was turned in by W. E. "Bill" Wheeler, supervisor of Tab Systems Control.

"I didn't recall at once exactly what it was (and neither did Bill), but after looking it up, we find that it pertained to the Suggestion Plan forms!" Callaway said.

Amount of awards is determined by the study of the idea, with a minimum payment for those accepted of ten dollars, and a maximum of $1,000.

Award checks are sent to successful idea suggestors by the Management Award Committee —Edgar Schmued, vice-president in charge of Engineering; C. B. Spencer, factory manager; and John B. Clark, director of Industrial Relations.

Experience has showed that better than one of every four suggestions turned in merits an award. On three occasions there have been maximum awards of $1000, with a number of other

(Continued on Page 4)

Northrop Fleet Drivers Win First Safety Award

Northrop drivers have gained the company an honor sought for several years by winning first award in the Fleet Safety contest for 1952-53.

By winning, the Norcrafters return to the top spot they last held in 1946-47, when they won grand sweepstakes honors. In the intervening years they finished consistently in the runner-up slot, barely being edged by the top contender.

Sponsored by the Fleet Transportation division of the Greater Los Angeles Chapter, National Safety Council, the 1952-53 overall competition — involving fleets from many different industries—wound up with an all-time low accident rate, exceeding last year's superb showing by 14 per cent.

Northrop was awarded top spot in the aircraft division of the contest, and North American the runner-up position, with Douglas El Segundo coming in third. Ryan Aeronautical, San Diego, which topped the Norcrafters last year, was presented with a special award for its exceptional showing.

Presentation of the awards was made at a dinner-meeting on September 25, with J. N. McNamara, Transportation supervisor, accepting the award for the company.

Special mention was made at the dinner of the remarkable driving record of Esther Y. "Peggy" Park, member of the Transportation department, who has a ten-year, 350,000-mile record of accident-free driving!

Shortly after the meeting 27 Northrop drivers were presented by the Safety Department with individual, wallet-sized National Safety Council certificates testifying to their safe driving skill. Among the 27, in addition to Peggy Park's award, were . . . . one for five years' accident-free driving; two for six years; and one each for eight and nine years.

The Northrop fleet as a whole —including all company vehicles, whether driven by Transportation Norcrafters or others —drove over two million miles during the year with a total of 34 reportable accidents. (Of these, only 14 were charged to Transportation Norcrafters).

The frequency rate—number of reportable accidents per 100,000 miles driven—was 1.83 for Northrop. At the same time the aircraft division rate overall was 2.89; and the record-setting rate for all divisions an astounding 3.00—for almost 400 million miles of driving!

The two million-mile total driven by Norcrafters included a number of runs to and from Ontario, moving airplanes—a man-sized task whose story was told in the September 12 issue of the Northrop News.

There were no accidents in this hauling operation, McNamara reported; and Safety Engineer Lee Johnson pointed out this fact as a real tribute to the skill of the truck drivers.

The Safety department also

(Continued on Page 4)

Classified Ads Debut Next Issue

Classified ad service will be offered for the first time in the pages of this newspaper, beginning with the issue of November 4.

The feature will be called "Buy, Barter, Sell or Free"; only Norcrafters will be eligible to submit ads, which will be printed —just as Going My Way ads are —free of charge.

As the name indicates, the new service covers a wide territory. Ads will be classified into 11 categories:—For Sale; Wanted to Buy; For Trade; Free; Lost; Found; Child Care Offered; Child Care Wanted; Rentals Offered; Rentals Wanted; and Personals.

Ads will be submitted for publication by Norcrafters on forms recently prepared. These forms will be available from department clerks; Personnel Activities and Services offices; plant lobbies; and from the Northrop News Office.

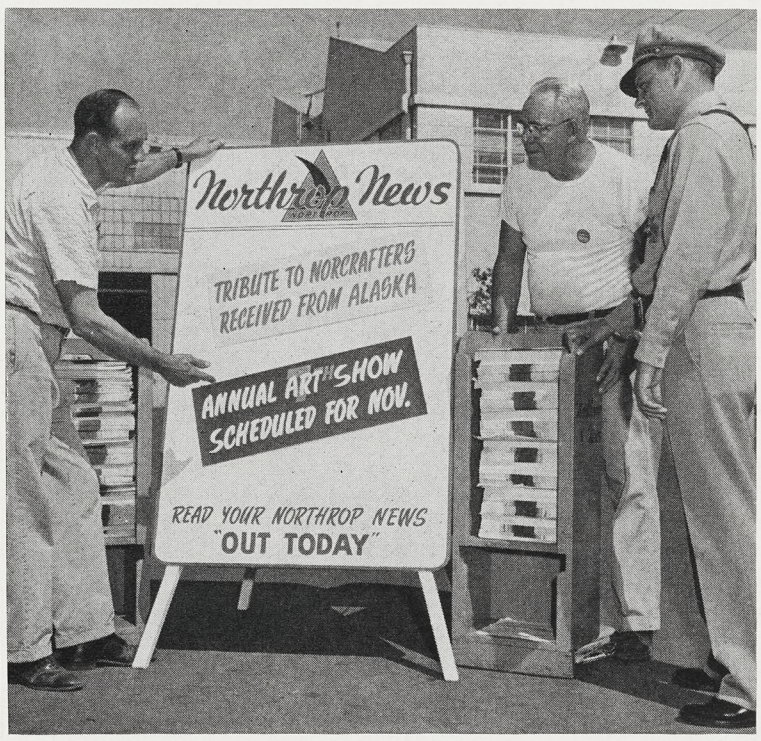
Procedure for inserting the ad in the Northrop News will follow the successful pattern established by Going My Way.

The form provides space for the Norcrafter to indicate the type of ad he is submitting and to describe his deal. Replies will be made via home telephone number; if the advertiser has no telephone, replies will be forwarded through the News office.

Each ad will be printed only once; if the advertiser wishes to

(Continued on Page 3)

Northrop News Headlines



NEW, ATTRACTIVE headline boards at four of plant gates highlight, on publication days, features of Northrop News being distributed. Boards were made by Sign Shop's Jim Muse and Thorlief Normann (Norm is at left in photo). Admiring board: A. J. Burford, Transportation, and Officer R. S. Quinn. New feature in News—beginning in the November 4 issue—will be classified ads (see story this page).

SONIC BOOM REGULATIONS

HIGH SPEED AIRCRAFT AVOID CITIES

The sonic boom!

With the advent of jet propulsion and high-speed aircraft, member companies of the Aircraft Industries Association recognize that these advances in aeronautical development have also brought a sound which was new and different to the public.

That high speed aircraft can create "booms" was discovered in 1950 during flights over Ohio and the Southern California area.

Continued study following discovery of the sonic boom resulted recently in local member companies of the Aircraft Industries Association adopting even more specific regulations which will preclude the possibility of sonic booms over densely populated areas. These regulations have been formulated and prescribed to by Northrop, Convair, Douglas, Hughes, Lockheed, and North American. The regulations are as follows:

1. All flights of high speed aircraft over densely populated Los Angeles and Southern California areas will be conducted in such a manner and at such speeds and altitudes as will preclude the possibility of creating sonic booms. Those flights in which high speed dives are necessary for compliance with military specifications or contract requirements, and in which a potentiality of a sonic boom exists, will be conducted over ocean areas and directed away from land, or over sparsely populated desert areas.
2. All high speed, low altitude speed calibrations which may be required will be conducted either over desert areas, or over ocean areas and at a reasonable distance off shore.

FORMS NOW AVAILABLE FOR INQUIRY ABOUT SOCIAL SECURITY ACCOUNTS

Any Norcrafter wanting an official statement of his Social Security account to date can now obtain the information by using forms available at the Group Insurance office, Plant One, and the Personnel office, Plant Three.

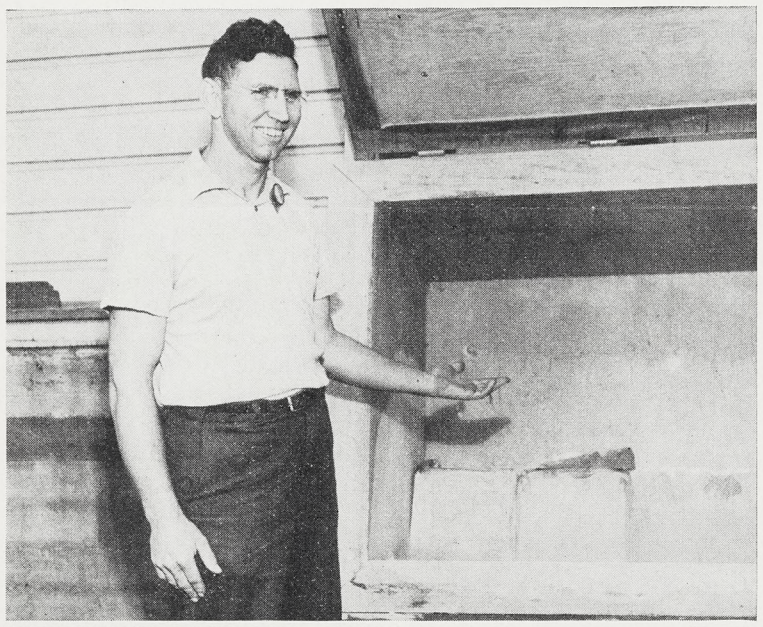
A supply of the "Wage Statement Request" cards has been received from the Inglewood field office of the Social Security Administration for distribution at Hawthorne (in the offices named), and at personnel offices at Ontario and Edwards.

The cards need only to be filled out by the Norcrafter; stamped; and mailed to Social Security Administration offices in Baltimore (the cards are already addressed).

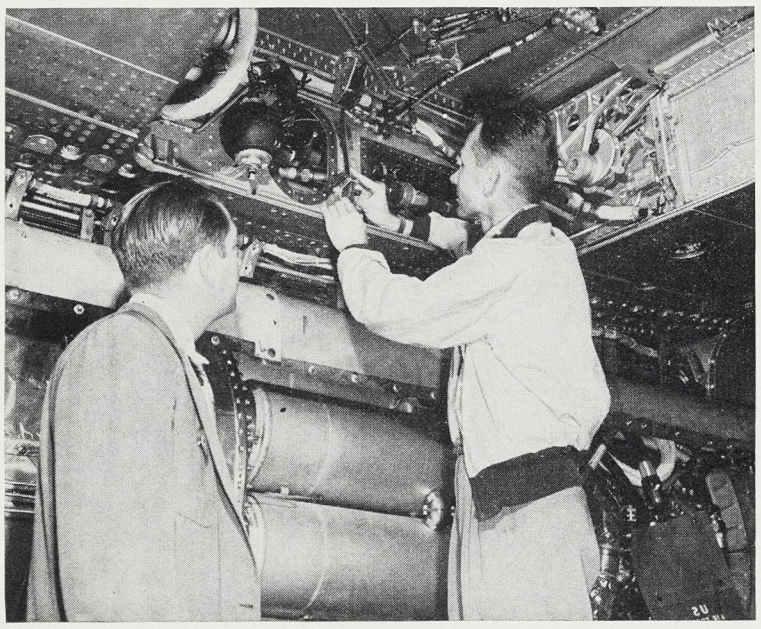
The amount shown in the requestor's account to date will be mailed to him personally.

There is no charge for the service, Social Security officials point out; all that is needed is proper identification of the account on the card (name and SS number).

Savings Suggestions



SIZABLE SUGGESTION AWARD was paid to Lester Neal, Receiving department, for his idea regarding procurement of dry ice for rivet storage boxes. He was commended by the Management Award Committee for his alertness in bringing about a more efficient method at lower cost. Plant Two departments needing the ice now get fresh shipments every Monday morning, at a considerable savings to the company. Suggestions recently passed the 10,000-mark.



SUGGESTION OF GAUGE for estimating degree of angle for control cable takeoff from pulleys brought an award to E. E. Caraway, right, of F-89 Final Assembly. He is shown pointing out simple gauge he suggested to Bill Minner, department foreman. Tool design Norcrafters rate assist in this Mat Con effort by making gauge to Caraway's ideas.

Committees Announced For Mat Con

With the emphasis in Safety-Conservation committee meetings shifting to material handling this month, Mat Con last week released more names of S-C committee members working on the program.

In the Test Lab group, with Chuck Shelley as chairman, the following are represented: John Bazyk and Richard Hanna (34-60); John McCarthy, Frederick Noah, Joseph Fields, Don Dye, and Harold Embrey (all 5530); and Harry Keeler and Joe Alegria (5538).

D. Y. Cole, chairman of the Office division S-C committee, is working with P. L. Scott (51-13); John Kommers and Boyd Corwin (5232); Cy Perkins (6700); Norm Herman (6720); Bud Kinsey (9310); and Larry Poynter (9350).

At Edwards, R. W. Rolfe, base administrator and chairman of S-C activities, reports, regular members are Hugh Rice (18-92); Bob Stahl, Frank Fitzgerald, and Clair Pritchard (58-92); and J. W. Smith (7492).

Alternate members: C. S. Peace (1892); W. J. Watker, Norm Edic, and C. M. Herrera (7492).

And at Mines Field, S-C Chairman Harold Pedersen reports, there are seven members: R. L. Laney, L. N. Drom, E. V. Ruger, and J. O. Eis (5891); J. W. McGrath (7591); Glen Klinger (4120); and G. A. Lanphier (3391).

Fourteen Norcrafters are on the S-C committee at Patrick, Larry Donoghue writes. In addition to Larry, the following serve: R. F. Adams (7500); T. J. Carroll, G. E. Miller, R. Enlow, and A. R. K. Ashton (32-00); H. A. Fischer and H. G. Short (5819); J. J. Murphy (6325); R. L. Stephenson (56-66); J. K. Donnell (5220); J. C. Hope (5338); Nurse Charlotte Moline; and J. D. Wells (1800).

Entry Rules Published For Annual Art Exhibit

PURPOSE: The Seventh Annual NRC Art Club Purchase Prize exhibit is to be held to encourage interest in a personnel activity and to present the opportunity to purchase from the personnel three works to be permanently hung in the buildings of Northrop Aircraft, Inc.

DATES: Works due in Personnel Activities Office, Plant One or Three, no later than November 19, 1953. Exhibition to hang at Crenshaw Cafeteria November 23 through December 4; Plant One Cafeteria, December 7 through December 18, 1953.

ENTRIES: Oil, watercolor, tempera, pastel, or drawings must be suitable for permanent hanging. Only limitation on subject matter is that portraits of Northrop administrative personnel will not be considered. Entries by any one artist are limited to three works. Pictures must be original (not copies of other paintings or of professional photographs). Pictures entered in previous Northrop shows are not eligible.

JUDGING AND PRIZES: Three pictures will be chosen by the Jury. First place winner will be purchased for $100.00, second place $75.00, and third place $50.00. In addition, the jury will award seven honorable mention prizes furnished by the NRC. Pictures winning honorable mention awards will be returned to entrants at close of exhibition.

SWEEPSTAKES AWARD: Plant personnel will vote for their favorite picture on ballots available in Cafeterias during exhibition. Winner of the balloting to receive "Sweepstakes Trophy" furnished by Northrop Recreation Club. This trophy will be suitably engraved with winner's name and data about show. Unless this picture is one of the purchase prize winners, it will be returned to the entrant at close of the show.

SIZE AND PRESENTATION: Minimum size, exclusive of mat and frame, shall be 12 x 16 inches. Maximum dimension (either height and width) including mat and frame shall be 48 inches. It will be to entrant's advantage to submit pictures in suitable frames. Unframed pictures obviously will suffer by comparison with those properly presented.

ELIGIBILITY: Northrop Purchase Prize contest is open to all Norcrafters and their immediate families (husband, wife, son or daughter).

NOTE: This is a purchase prize exhibition, and it is to be understood by each entrant that, should his picture be chosen for first, second, or third place by the jury, it, including frame, mat, etc., is to become the property of Northrop Aircraft, Inc., in exchange for the prize money corresponding to the award won. Sweepstakes winner and honorable mention entries to be retained by artist, except as noted under "Sweepstakes Award".

Rules for the Junior Division, an added feature to the Exhibit this year, are the same as the adult rules with the exception of:

Entrant—son or daughter of a Norcrafter—must be under 14 years of age on the deadline date—November 19.

Entries may be in any medium named in the adult rules plus finger painting and crayon. Drawing, painting and finishing must all be done by entrant. Presketched or number painting work will be ineligible.

Minimum size for the pictures is 8 x 10 inches. Pictures do not have to be framed. However, a frame would enhance the picture and be to the entrant's advantage.

Special surprise awards will be given to the three top entries as chosen by the jury.

GEORGE GILLETT ELECTED VEEP OF TABULATING METHODS ASSOCIATION

George Gillett, supervisor in Tabulating Finance, has been elected to the post of vice-president of the Tabulating Methods Association.

The organization includes about 200 members representing all tabulating installations in the Los Angeles area.

In addition to George, several other Norcrafters—Al Nichols, Tabulating Finance; Bill Wheeler, Tab Systems Control; and Bob Phillips and Ed Allee, Tab Control Operations—belong to the organization, and are active in the conduct of its affairs.

GEORGE GILLETT

Northrop News
Vol. 12 Northrop Field, Hawthorne, Calif. No. 7

Published every other Wednesday by
INDUSTRIAL RELATIONS DIVISION, NORTHROP AIRCRAFT, INC.
JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

A publication by and for the men and women of Northrop.
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Management Club Dinner-Dance to be Held At Hollywood Roosevelt — October 24

The Management Club's annual semi-formal dinner-dance—being held on October 24 at the Hollywood Roosevelt Hotel—is already close to a sell-out, the M-C Board of Control announces.

The limited number of tickets went like hotcakes, when the glittering program was announced to the membership. Headlining the entertainment portion of the evening's activities is the inimitable Hilo Hattie and her Hawaiian troupe.

Bill Gove, Minnesota Mining and Manufacturing Company, is featured speaker of the evening. Gove was selected National Sales Executive "Salesman of the Year" in 1952.

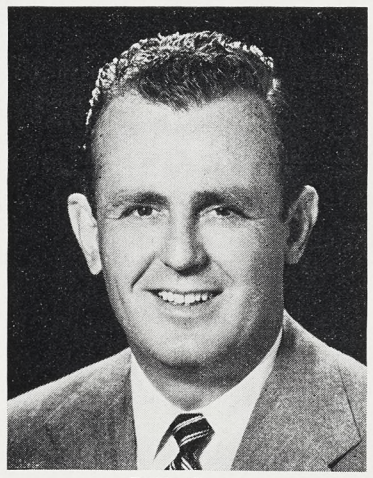
He was recently sent on "Operation Enterprise" to Europe, where he addressed conferences in ten countries on the continent.

Title of his talk is "What's Old".

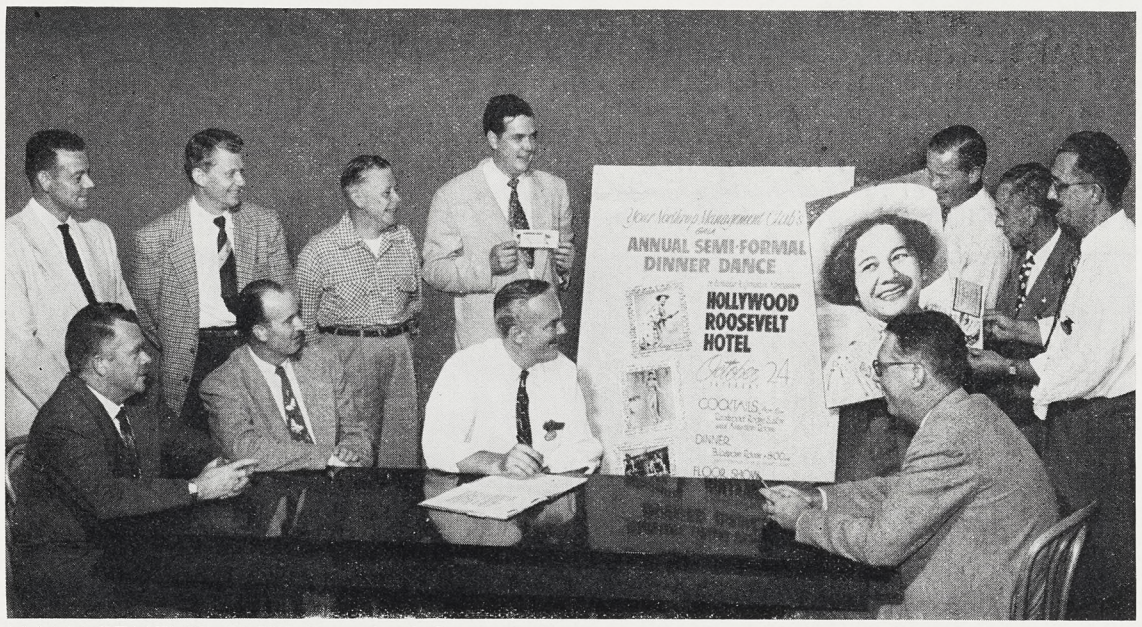
A strolling trio will furnish music during the cocktail hour, and for dancing following the program. The cocktail prelude begins at 6:30 p.m. Dinner at 8:00.

The raffle customarily held at Management Club meetings will be held during this occasion also, the Board reports, but the prizes will be for women only—thus giving the wives or girl friends of M-C male members the preference.

Cocktails will be served in both the Aviation and Redwood Rooms of the hotel.



Bill Gove



MANAGEMENT CLUB Board of Control discusses October 24 dinner-dance. Seated, from left: Charles Bradford, president; H. J. "Bud" Burns, jr., vice-president, nights; Bart Maloney, publicity chairman; W. W. "Scotty" Smith, first vice-president. Standing: John Strater, membership chairman; Bill Schramm, sergeant-at-arms; Don Graves, treasurer; Phil Smalley, ticket chairman; H. J. "Cy" Perkins, program chairman; Howard Altman, facilities chairman; Ralph Hopkins, educational chairman. Hilo Hattie smiles on all.

Grant of National Charter Boost to Safety Efforts

Northrop Safety Committeemen will be interested to know that their work has increased national significance with the recent passing of a bill by Congress granting a federal charter to the National Safety Council.

President Eisenhower signed the bill August 13, 1953, which will increase enormously the scope of the Council's activity so well supported by safety workers at Northrop.

Formal presentation of the federal charter will occur at a ceremony to be held during the National Congress this month.

It is believed by safety men that this well-deserved recognition of the Council by the United States Government may be a stepping stone to greater achievements in terms of lives saved and accidents prevented.

At Northrop the efforts of all Norcrafters, plus the work of Safety-Conservation committeemen and Safety department personnel, resulted in the award of top national safety honors to the company in 1952.

Further example of Norcrafter safety vigilance is the Fleet Safety award (see story on page 1).

Classified

(Continued from Page 1)

run his classified again, he will be asked to submit another form.

Deadline for receipt of the ad form in the News office is the Wednesday before publication. Thus, ads intended for the November 4 issue should be at the Northrop News, Department 42-80, Zone 20, by midnight, Wednesday, October 28. Ads received after deadline will be held over for the following issue.

The new feature comes on the heels of another new development concerning the News—the establishment of new "headline" boards at East and West Clockhouses, Plant Three; the East Clockhouse, Plant One; and Gate Three, Plant One.

The new boards headline the top stories in the current issue of the Northrop News, and are placed at the gates on publication day.

The boards are the artistic products of Sign Shop Norcrafters Thorlief Normann and Jim Muse.

With artwork almost completed on the heading for "Buy, Barter, Sell or Free"—work by Norton Kinder and other Art department Norcrafters—the way is now open for Norcrafters to deal with their Northrop friends—trailers for MGs; washing machines for outboard motors; or what have you?

Scorpion-Eye View

GREAT HARBOR AREA of Southland is below swiftly-moving Scorpion piloted by Rod Close. This is companion picture to one used on cover of last issue; both were taken by Paul Wheeler, Photo Lab, from another F-89 piloted by Rol Owen. Lower center is noted Watchorn Basin; next to it, moving to left, Coast Guard dock; at left, California Yacht anchorage; above center, steamship freight terminals.

What Job Would you Like In C-D - - - Reporter Asks

With Civil Defense preparations assuming increasing importance around the country—and with C-D training programs continuing here at Northrop—Inquiring Reporter began wondering what kind of Civil Defense duties people in general—and Norcrafters in particular—preferred. Inq Rep found a variety of answers as she toured the plant and asked:

What Civil Defense duties would you prefer to do?

Alice Holtkamp, Quality Control, nights: "I never thought about it; but I suppose I'd like to do secretarial work in Civil Defense, since I have always done it and am familiar with it. My husband may ask for a Civil Defense assignment when we move."

R. C. Stone, Plaster Shop and Foundry, nights: "That's hard to answer off-hand; I'm not sure of the jobs involved. During the last war I was in auxiliary police—in the 822nd AAF at Bandini and Atlantic, Maywood, among other activities, so I suppose I'm inclined to that job because of experience."

Floyd Swanson, Machine Shop, nights: "I would choose fire-fighting, I suppose, mostly because I have training in some of its phases. We're conscious of it here in the "Mag Room", working with magnesium all the time, and we've been drilled on fire procedure."

Sergeant Regal Dickens, Plant Protection, nights: "I was an auxiliary police instructor until change of duties forced me to give it up. I enjoyed it, found it very interesting. I'd be interested in communications—radio and all that—too. I think Civil Defense is a wonderful thing, but it certainly is hard to arouse interest in it. It's a tough job to organize."

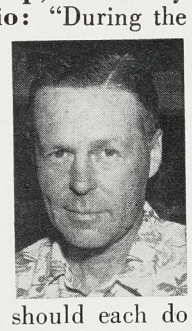
G. F. Smith, Contract Administration: "I have no job preference when it comes to Civil Defense. I think we all should help in every way possible to strengthen our civil organization both at work and at home. We should by all means let our willingness to serve be known."

Angie S. Manos, department clerk, Engineering Services: "I would prefer first aid work because I like to help people. In any emergency we all should help each other. First Aid training is something everyone should have. You never know when you will need it."

Cleveland Woodruff, Janitors, nights: "I would be willing to do almost anything asked of me. It would be OK with me. Last time I was a driver for the Wheels and bosses; I would carry messages and the books whenever they had to be moved or if they were sent for by one of the leaders."

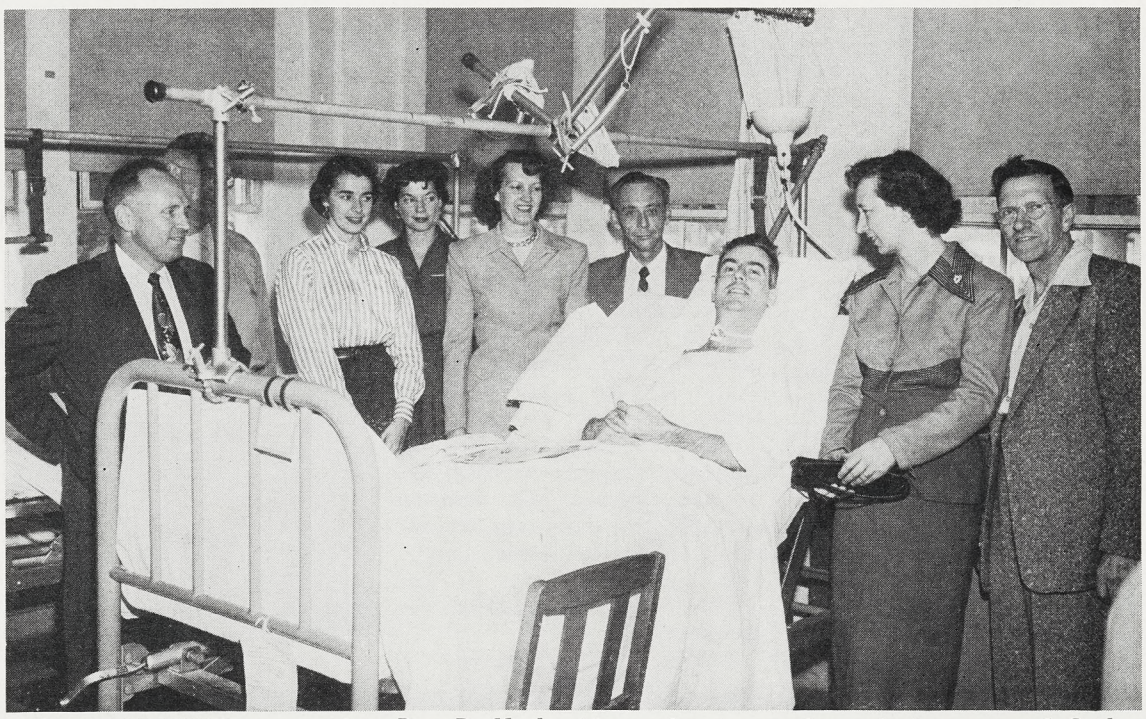
Elmer Babel, supervisor, Engineering Standards: "I haven't given the subject any thought at all. My job has so many facets I haven't had time to consider what to do in an emergency. I think if we stick to the details of our jobs, perhaps there will be no emergency—although there can be no control over the mad minds of Russia."

A. M. Grider, leadman, Offset Lithographic Press: "I am already a substitute warden, for Duane Grosart, and am ready to help out in any emergency, if called upon to do so. I have no particular preference. I am soon to have my training program, and first aid seems the most valuable knowledge to have."



Ernie Sharp, Assembly Stores, Ontario: "During the war I was an auxiliary fireman for Civil Defense in Monterey Park. I am at present assistant zone warden of the Ontario administration building. I think we should each do what we can to be ready to give the best possible assistance to the program in case of an emergency."

Come-See Tour Finds Old Friend



SUPRPRISE VISIT was paid to Ray Duffy by Norcrafter co-workers during tour of Orthopaedic Hospital. From left: Bill Holmes, Power Plant; Frank Thompson, Tooling; Jean Doran, Alberta McBeth, Northrop News; Ruth Foster, Engineering Labs; Howard Altman, Production Planning; Ray; Iris Thompson, Machine Shop; Jessie Brant, Sheet Metal. Ray, who was Labor Relations representative, nights, was stricken with polio in October, 1952. Orthopaedic, one of the Community Chest's agencies, serves as outpatient clinic as well as children's hospital. Norcrafter Charities assist the hospital in carrying on its work.

Top Honor

(Continued from Page 1)

added that the record thus far in the current campaign (which began on August 1) is approximately fifty per cent better already than the award-winning rate achieved in 52-53.

"We do not intend to rest on our laurels," McNamara concluded. "We hope to intensify the driver training program until we cut the accident rate down to what might be called an absolute minimum."

MARINERS SLATED FOR HONOR SHOW, NOVEMBER DANCE

Worthy NRC Mariners will be piped to the Bridge of Honor at the annual formal Girl Scouts awards ceremony to be held in the Clubhouse on Sunday, November 7, at 7:30 p.m. Dancing to Harkins' orchestra wil follow.

The Bridge of Honor is the highlight of the year to Mariners who have earned stripes and pins through insistent pursuit of sea scouting.

May Hawkins, Mariner commissioner, reports that the ship will be host to some 200 Sea Scouts, Mariners, parents and friends, all-told, for the occasion.

Celebration is planned for dancing pleasure, and all interested Norcrafters are welcome.

10,000th

(Continued from Page 1)

awards only slightly missing the high mark.

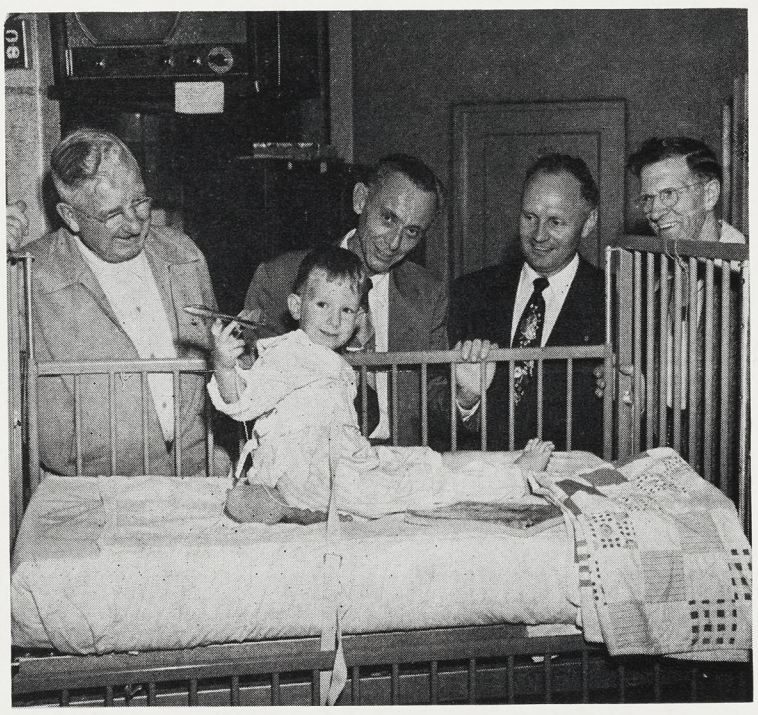
In addition to the cash award, particularly ingenious ideas capable of being used in other companies or industries may be screened by the Patent Office, for patent arrangements, and by the Associated Products department for licensing agreements.

The Norcrafter who submitted idea Number 10,000—Kinney—is a native of Vermont who has been a Norcrafter for three years. "Ten Grand" was not his first suggestion; his No. 9544 is also now being evaluated.

PA&S DISCOUNT FOR TICKETS ON LA MOTORAMA

Personnel Activities, and Services, Plants One and Three, have available for Norcrafters a limited number of special discount tickets to Motorama, America's greatest automotive exposition, at Pan-Pacific Auditorium.

The ticket, which may be exchanged at box office, entitles holder to a 40 cent discount to apply on purchase of one $1.50 admission ticket for the following dates: October 26, 27, 28 and 29. Show hours are from 1:00 p.m. through 11:00 p.m.



LITTLE LARRY WILKS happily greets Norcrafter visitors from his bed in Orthopaedic Hospital, where he had undergone an operation. From left: Frank Thompson, Howard Altman, Bill Holmes and Jessie Brant. Thousands of children and youths need and use one or more of Community Chest-supported clinics, hospitals and youth services. Individual support is needed to give children necessary medical care.

SEVEN-YEAR-OLD Barbara Ann Hammond has big smile for Northrop cameraman Bill Sterr. Norcrafters in back are, from left: Iris Thompson, Ruth Foster, Jessie Brant, Bill Holmes and Frank Thompson. Community Chest's slogan for 1953:—"Give every child a chance . . . give more this year". Eighty cents of every Chest dollar is spent on child services. Review your Combined Charities before drive next month.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office. (Department 4280, Mail Zone 20).

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 2)
TEMPLE & FIGUEROA ST. (If they are living near Vermont or Hoover St., I am willing to pick them up), Los Angeles. VAN Q. NAVARRO (5162-332, Ext. 548), MU. 2895. (12-1-2)

TEMPLE & BIXEL. Between Bixel and Boylston St., on Temple, Los Angeles. FRANCISCO C. MISO (5587-399, Ext. 1947). MU 7705. (12-1-2)

CENTRAL AVE. & 47TH ST., Los Angeles. THEODORE KELLY (5544-99, Ex. 2645), AD. 1-1044 (12-1-2)

(Zone 6)
ATLANTIC & PACIFIC COAST HWY., Long Beach. F. A. CANNADY (5501-309). Ex. 2200. (12-1-6)

(Zone 9)
PROSPECT & TULITA. (Route: Via old Sepulveda to Hawthorne Blvd. Will share ride or take riders). Redondo Beach. REX GAMBLE (5233-27, Ext. 1456), FR. 5-5782. (12-1-9)

(Zone 10)
CLARKLANE & RINDGE, North Redondo. E. A. BROOKS (5587-154, Ext. 1947). (12-1-10)

(Zone 12)
CENTURY & INGLEWOOD AVE. (Route: Down Inglewood Ave. to Century to Prairie), Inglewood. EARL JOHNSON (5588-336, Ext. 1529 or 1938). (12-1-12)

(Zone 13)
OLYMPIC & BEVERLY GLEN. (Will exchange rides), Westwood. A. D. FANCON (3410-58, Ext. 742), CR. 6-3930. (12-1-13)

OVERLAND BLVD. & FARRAGUT DRIVE., A. A. CASTILLON (5222-325), Ext. 1919), VE 8-1307 (12-1 & 3-13)

(Zone 14)
WESTERN & SUNSET BLVD., Hollywood. VICTOR ROVALDI (5588-94, Ext. 1529-1938). HO 7-5279. (12-1-14)

RIDES OFFERED

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 8)
NARBONNE & 243RD. (I have a car & will take riders or ride with someone else or change off), Lomita. CAROLINE EUBANK (6110, Ext. 672), DA. 6-2639.

(Zone 12)
VENTURA & TOPANGA BLVD. (Room for three. Route: Down Ventura - Sepulveda to Northrop), Woodland Hills. J. M. HERRINGTON (6620-2, Ext. 1519 or 2126). (13-1-12)

SUNSET BLVD. & LIVORNO. (Via Playa del Rey), Pacific Palisades. JOAN CLARK (5150-24, Ext. 2325). (13-1-12)

(Zone 14)
SLAUSON & CRENSHAW. (Will pick up on Crenshaw from 54th St. to Plant), Los Angeles. JAMES M. MOORE (3234-76, Ext. 2660). AX 2-3055. (12-1-14)

VENICE BLVD. & REDONDO BLVD., Los Angeles. JACK M. HIRSHORN (4300-24, Ext. 2436), WY. 5175. (3-13-14)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

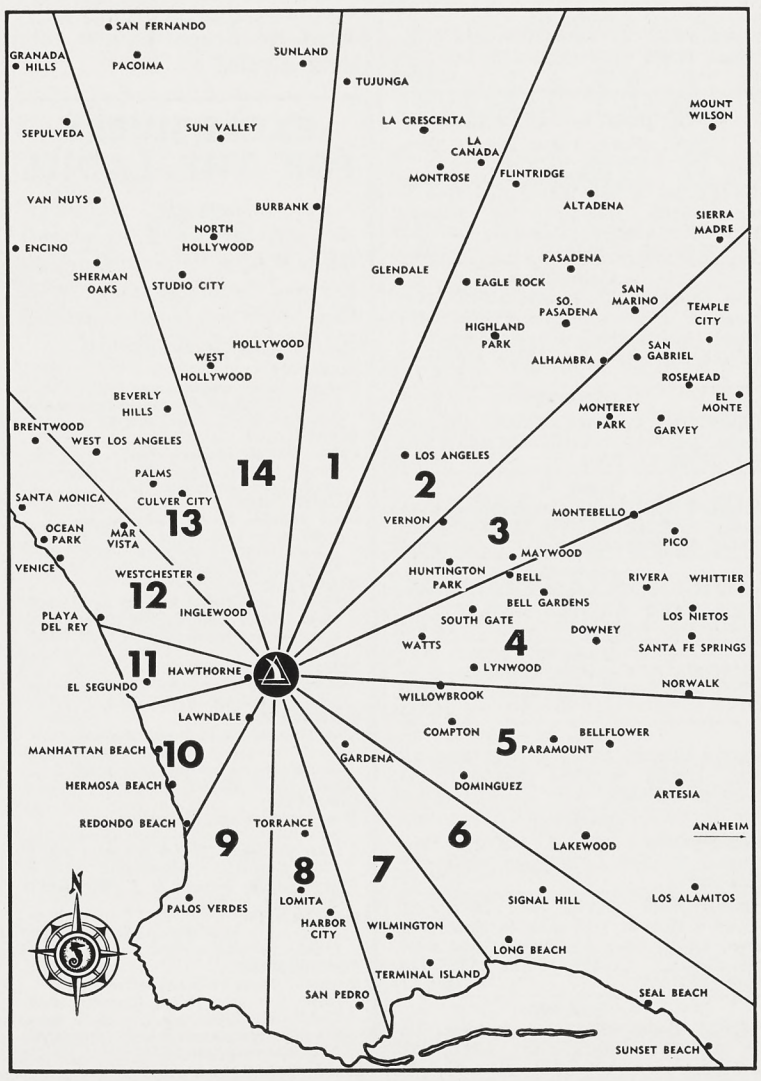
(Zone 1)
CENTURY & DENKER OR IMPERIAL & DENKER. (Route: Denker to Imperial, Imperial to Crenshaw), Los Angeles. BETTY REYNOLDS (3210-822, Ext. 1555), PL. 4-3810. (13-3-1)

MONTEREY RD. & AVE. 60. (Come over Arroyo Seco & Hollywood Freeway to Western, out Western. Will alter course slightly), Los Angeles. CHAS. C. SCHRADER (6220-16, Ext. 2045), CL. 6-3767. (13-3-1)

(Zone 10)
PIER AVE & MANHATTAN AVE., Hermosa Beach. RALPH G. GAUT (3272-824). FR 2-9880. 13-3-10)

PACIFIC COAST HWY. & EMERALD (Primarily interested in joining or forming a car pool), Redondo Beach. J. F. FORANCE (6110-52, Ext. 2534). (13-1-10)

(Zone 12)
VENTURA & TOPANGA BLVD. (Room for three. Route: Down Ventura - Sepulveda to Northrop), Woodland Hills. J. M. HERRINGTON (6620-2, Ext. 1519 or 2126). (13-3-12)



RIDES OFFERED

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 14)
OLIVE & SAN FERNANDO, Burbank. DONALD J. KATZ (1810-73, Ext. 2024 or 2025). (13-3-14)

LA BREA & WILSHIRE, Los Angeles. ELNORA FRUTH (6230-105, Ext. 2724), WY. 9921. (13-3-14) (13-1-8)

CRENSHAW BLVD. & RODEO ROAD (Arrive at Plant 3 in time to catch 7:03 bus to either Plant), Los Angeles. KARROL SHURTZ (3120-21, Ext. 1418-1226-1689). AX 2-3692. (13-3-14)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 4)
117TH & MAIN. (Via Imperial), Los Angeles. HAROLD BATISTE (5534-403, Ext 2244), PL. 5-5544. (18-1-4)

(Zone 5)
ROSECRANS & LONG BEACH BLVD. OR IMPERIAL & LONG BEACH BLVD.) (Have room for 4 passengers), Compton. PAUL FUSSELL (5501-653, Ext. 2200), NE. 6-5196. (18-1-5)

ROSECRANS & GARD, Norwalk. F. E. SHERLEY (5587-627, Ext. 1973), TO. 3-1091. (18-1-5)

ROSECRANS. From Norwalk to Plant, Norwalk. R. C. KING (5501-438, Ext. 2200), To. 3-5039. (18-1-5)

(Zone 6)
VICTORIA & AVALON, Gardena. L. W. HOLT (5588-646, Ext. 1529 or 1938). (18-1-6)

CARSON & STUDEBAKER ST. (Artesia to Alameda to Olive to Vermont to El Segundo, then to plant), Long Beach. R. B. THOMAS (6587-424, Ext. 1973), LB. 39-9226. (18-1-6)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 13)
SEPULVEDA & SLAUSON. (Route: Sepulveda to Centinela to Florence to Prairie to Crenshaw to Plant No. 3), Culver City. LEO R. WEISS (5621-437, Ext. 2208). (18-3-13)

Rides Wanted

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 2)
KENISTON OR RIMPAU & SLAUSON AVE., Los Angeles. J. C. RAINS (5620-62, Ext. 2233), AK. 1-4669. (2-1-2)

(Zone 2)
MANCHESTER & NORMANDIE or WESTERN, Los Angeles. FRANK SUBJECT (5544-92, Ext. 2645), TW 2404. (2-1-2)

WESTERN & FLORENCE, Los Angeles. W. B. ALLEN (5373-33, Ext. 2465), PL. 8-9398. (2-1-2)

(Zone 3)
NORMANDIE & IMPERIAL HIGHWAY, Los Angeles. WILLIAM B. VALENZUELA (5534-34, Ext. 2244). (2-1-3)

(Zone 5)
ARTESIA & FIRESTONE BLVD., Buena Park. KATHERINE K. TAGUE (5504-708, Ext. 1363), Buena Park 7197. (2-1-5)

(Zone 6)
AVALON BLVD. & VICTORIA AVE. (Victoria Park Area), Gardenia. G. E. BREWER (5588-324). (2-1-6)

(Zone 7)
AVALON VILLAGE, Wilmington. WILLIAM L. DAVIS (5588-346, Ext. 522). (2-1-7)

(Zone 8)
WESTERN AVE. SOUTH & 101, Lomita. A. N. BROOKMAN (5544-31, Ext. 2645), DA. 6-3967. (2-1-8)

PALOS VERDES & WESTERN AVE., Lomita. K. M. LEE (5588-120, Ext. 1529). (2-1-8)

CRENSHAW & 182ND, Torrance, MRS. JOHN FREEMAN (5351-61, Ext. 1706), ME 4-9601 (2-1-8)

(Zone 9)
PROSPECT & TULITA TO PLANT 1. (Route: Via old Sepulveda to Hawthorne Blvd. Will share ride or take riders), Redondo Beach. REX GAMBLE (5233-27, Ext. 1456), FR. 5-5782. (2-1-9)

(Zone 10)
HAWTHORNE BLVD. & REDONDO BCH. BLVD., N. Redondo. TINA BLYTHE (5232-58, Ext. 1480), FR 9-2122 (2-1-10)

(Zone 12)
LINCOLN BLVD. & VENICE BLVD. OR LINCOLN BLVD. & WASHINGTON BLVD., Venice. ROBERT L. MICKLEY (5501-181, Ext. 2200). (2-1-12)

(Zone 13)
OLYMPIC & BEVERLY GLEN. (Will exchange rides), Westwood. A. D. FANCON (3410-58, Ext. 742), CR. 6-3930. (2-1-13)

ELM & FREEMAN, Inglewood. KATHY MARTINO (5352-27, Ext. 1508), PL. 2-7243. (2-1-13)

CULVER BLVD. & OVERLAND BLVD. OR OVERLAND BLVD. & FARRAGUT DRIVE. (Ride wanted or join car pool), Culver City. A. A. CASTILLON (5222-325, Ext. 2768 or 1919), VE. 8-1307. (2-1-13)

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 14)
WESTERN & SUNSET BLVD., Hollywood. VICTOR ROVALDI (5588-94, Ext. 1529-1938), HO. 7-5279. (2-1-14)

CRENSHAW & JEFFERSON (Live off corner of 8th Ave. & Jefferson, 7 blocks from Crenshaw & Jefferson), Los Angeles. CHARLES NEAL (5503-36, Ext. 1277 or 2681), RE 2-4619 (2-1-14)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
ROSECRANS & ATLANTIC, Compton. D. H. EAGLIN (7520-17, Ext. 2245), NE. 1-7209. (2-3-5)

(Zone 10)
101 HIGHWAY & 21ST ST., Hermosa Beach. RUBY HALEY (5621-118, Ext. 2649), FR. 2-8260. (2-3-10)

HIGHLAND AVE. & ROSECRANS, Manhattan Beach. G. L. GARRETT (5806-178, Ext. 2745. 2-3-10)

(Zone 12)
LENNOX BLVD. & BURIN AVE., Lennox. DARRELL EWING (5509-26, Ext. 2075), OR. 7-4296. (2-3-12)

CULVER CITY & OVERLAND BLVD., Culver City. (Ride wanted or join car pool). A. A. CASTILLON (5222-325) Ext. 2768-1919), VE 8-1307. (12-1 & 3-13)

INGLEWOOD & CENTURY, Inglewood. DELOY C. SCHLATTER (5162-369, Ext. 548). (2-3-12)

(Zone 13)
CULVER BLVD. & OVERLAND BLVD. OR OVERLAND BLVD. & FARRAGUT DRIVE. (Ride wanted or join car pool), Culver City. A. A. CASTILLON (5222-325, Ext. 2768 or 1919), VE. 8-1307. (2-3-13)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 1)
FLORENCE & VAN NESS, Los Angeles. DORIS RYAN (1440-23, Ext. 1547), PL. 2-2021. (3-1-1)

VERMONT & 3RD OR WESTERN & 3RD OR WILSHIRE & ALEXANDRIA, Los Angeles. RITA SANN (5126-55, Ext. 1635), DU. 8-8368. (3-1-1)

DOWNTOWN BURBANK, Burbank. B. W. TANNER (AF Office, Ext. 1652), CH. 8-9746). (3-1-1)

(Zone 5)
ATLANTIC & COMPTON BLVD. (I live between Compton Blvd. & Rosecrans east of Long Beach Blvd. & west of Atlantic), Compton. BARBARA HANSINK (4100-18, Ext. 2331), NE. 2-2292. (3-1-5)

BELLFLOWER & CARSON, Long Beach. GEO. F. HERSEY (5114-27, Ext. 1708), L.B. 398583. (3-1-5)

(Zone 8)
CRENSHAW & ROSECRANS, Gardena. LEWIS T. SMITH (3230-77, Ext. 553), ME. 9-4556. (3-1-8)

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 8)
NARBONNE AVE. & PACIFIC COAST HWY., Lomita. PAT STEHLE (4240, Ext. 777), DA 6-4492. (3-1-8)

NARBONNE & 243RD. (I have a car & will take riders or ride with someone else or change off), Lomita. CAROLINE EUBANK (6110, Ext. 672), DA. 6-2639. (3-1-8)

(Zone 9)
MANHATTAN & CRENSHAW. (Live between Compton & Manhattan Beach Blvds., will walk to Lemoli & Compton), Alondra Park. CARL M. OLSON (5940-12, Ext. 2498). (3-1-9)

EMERALD & CATALINA, Redondo Beach. ROY C. ASHEN (5126-50, Ext. 2546). (3-1-9)

(Zone 13)
GREVILLEA & KELSO, Inglewood. BEULAH M. WILSON (5151-34, Ext. 687), OR. 2-6903. (3-1-13)

CENTINELA & LABREA. (Chester & Wexham Way are my cross streets), Inglewood. CAROLYN RIDDLE (4100-13, Ext. 2331), OR. 8-4994. (3-1-13)

MANCHESTER & INGLEWOOD, Inglewood. LAWRENCE I. LOWELL (3230-100, Ext. 2058), OR. 7-6705. (3-1-13)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
WESTERN & 6TH. (Or in vicinity of Town House on Wilshire Blvd.), Los Angeles. E. W. PETERSON (8330-85, Ext. 41), DU. 4-7143. (3-3-1)

(Zone 4)
FLORENCE AVE. & OLD RIVER SCHOOL ROAD, Downey. J. T. BEAL (3530-113, Ext. 1927). (3-3-4)

(Zone 10)
DOWNTOWN HERMOSA BEACH, Hermosa Beach. J. G. RISING (1810-156, Ext. 2024). (3-3-10)

PACIFIC COAST HWY. & EMERALD (Primarily interested in joining or forming a car pool), Redondo Beach. J. F. FORANCE (6110-52, Ext. 2534). (3-1-10)

GOULD & HWY. 101, Hermosa Beach. JOYCE LeMASTERS (3140-707, Ext. 466), FR 2-6314). 3-3-10)

PACIFIC & 19TH, Manhattan Beach. L. A. WALSLAGER (3430-22, Ext. 1647-1648). (Would prefer to join car pool). FR 2-0257. (3-3-10)

ROSECRANS & MAPLE, Manhattan Bch.. (Prefer a share the car pool). JOHN D. ADAMS (3530-3530-17, Ext. 2539 or 476). FR 4-2395. (3-3-10)

(Continued on Page 6)

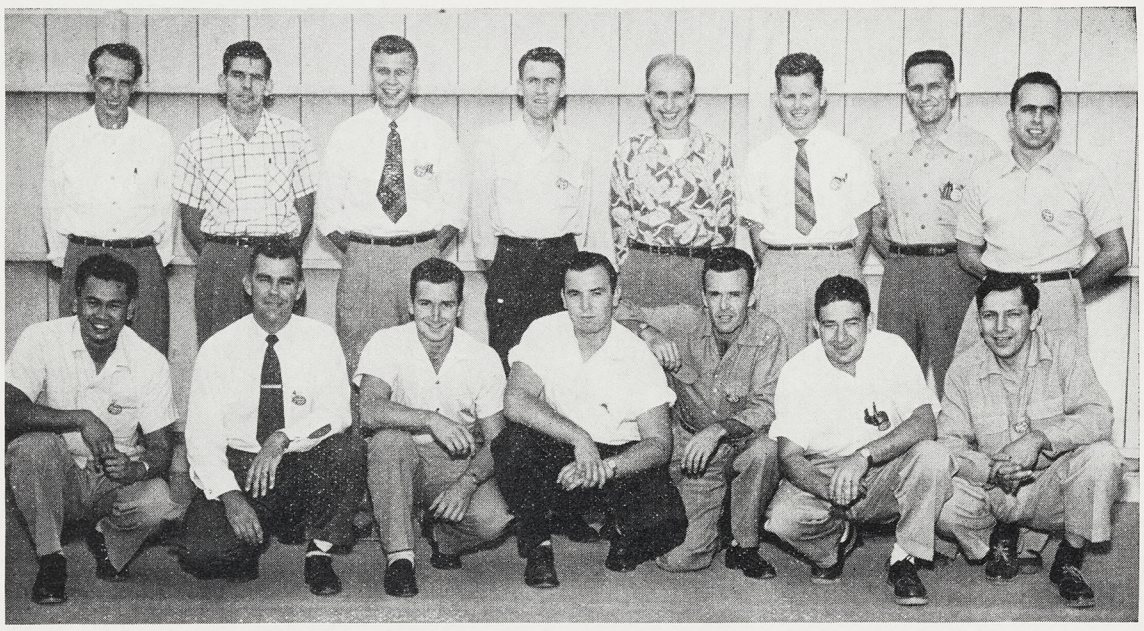
KICK-OFF for the new fall NRC Ballroom Dance Class will be an exhibition on Saturday, October 24, at NRC Clubhouse by Instructor Bill Williams and Dorothy Lloyd (above), plus fifteen professional instructors, plus a dance class. The exhibition will be free, and spectators will be invited to participate in instruction following. Norcrafters, their families and friends will at that time be given the opportunity to sign up for five-session series of progressive lessons ($2.50 per person), which will begin on Saturday, November 14.

Norcrafter Diamond Champions

PENNANT WINNERS of the Night Shift League are Department 5437 team members pictured above, from left, kneeling: Clarence Crain, lf, with son Mike; Bill Monson, p and of; Stan Micek, rf; Warren Treharne, 3b; Andy Anderson, 2b; and Everett Crum, ss, with son Steve. Standing: Joe Bethrum, p; Bill Kee, lb; Terry Cannon, p, Frank Rosenstiel, c; Leo Loeffler, cf; and Manager Dick Adair. Team member Ted Aheyta, if, was absent and Pitcher Jack White is now serving in the U.S. Army. Vying for Night Shift League championship was Department 5501, nosed out in a best-two-out-of-three playoff by 5437. In the finals, however, 5620 won two straight over the Night Shift champs.

PLANT CHAMPS of the 1953 season in NRC Softball, representing Department 5620, American League, are, from left, kneeling: Alex Kratofil, lf; Dick Lowry, cf; Reese Harrington, c; Tommy White, p; Tommy Blair, lb; and Karl Jones, of. Standing: Kenny Hazelton, of; Glenn Thomason, rf; John Bloom, of; Paul Schule, ss; Jack Gibilisco, 2b; Cal Mahikoa, of; Chet Gowin, of; and Johnny Solema, 3b. Team's standing was 17 wins against 2 losses—one loss to American League runner-up Department 5587 in the second game of the playoffs. Thus, the crown goes to Plant Two.

FIFTH OF DECEMBER YOU'LL LONG REMEMBER



NATIONAL LEAGUE'S top nine title was taken by Department 3207 (above) in a four-way battle with Departments 5515, 9340 and Lynwood. From left, in front, are: Connie Bacus, lb; Bill Roberts, 2b; Ken Tarbell, 3b; Ellsworth Hardy, c; Jim Stewart, p; Ike Eigler, rf; Don Peterson, lf. Back: Fred Peak, cf; Dick Mazy, of; Jerry Helwig, ss; George Gratt, of; Glen Rice, of; Dick Wallace, of; Jack Taggart, if; and Bill Malkmus, of. League competition was keen throughout season. Departments 3230 No. 1, 5501, 5585 and Lynwood at end of season were nip-and-tuck for fourth spot, Lynwood coming out on top.

Mat Con says

IDEAS DO PAY OFF! THINK ABOUT WAYS TO CONSERVE MATERIAL, TIME, AND ENERGY. DEVELOP PRACTICAL WAYS TO IMPROVE EXISTING METHODS AND PROCEDURES; AND SUBMIT YOUR IDEAS TO THE SUGGESTION AWARD DEPARTMENT . . .

MAKE YOUR IDEA ONE OF THE NEXT TEN THOUSAND

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 12)
PRAIRIE & 122ND, Hawthorne. ELEANOR F. MOROSON (6410-13, Ext. 2550). (3-3-12)

(Zone 13)
LA BREA & ARBOR VITAE, Inglewood. RUTH CARTER (3140-746, Ext. 466). (3-3-13)

8:00 a.m. — 4:45 p.m.
(Plants 1 and 2)

(Zone 5)
CENTRAL & IMPERIAL or AVALON & ROSECRANS. (East to Avalon or Central for bus connection or better—into Compton. Will appreciate and pay for waiting until 4:45 p.m.), Compton. MARTHA LUCKEN (5151-37, Ext. 687), NE. 1-6295. (5-1-5)

(Zone 12)
LENNOX & INGLEWOOD AVE., Inglewood. JOYE AVERY (5151-38, Ext. 687), OR. 2-5276. (5-1-12)

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 6)
ORIZABA & 3RD, Long Beach. BETTY WHEAT (4230-221, Ext. 631), LO. 903275. (6-1-6)

3:45 p.m. — 12:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
JEFFERSON & VERMONT, Los Angeles. ALIVAS EPISANIO (5508-487, Ext. 520). (6-3-1)

(Zone 8)
NARBONNE & PENNSYLVANIA, Torrance. ETHEL ELLIS (5508-520, Ext. 520). (6-3-8)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)
JEFFERSON & WESTERN. (Any ride toward 3600 Western), Los Angeles. CHARLES L. SMITH (5588-641, Ext. 1529 or 1938), RE. 3-9025. (8-1-1)

(Zone 2)
LOS ANGELES ST. & 6TH STREET. (Can meet car at any time after 2:30 at Greyhound bus station), Los Angeles. E. L. NELMS (5544-428, Ext. 2645), MU. 0704. (8-1-2)

(Zone 3)
COMPTON & MANCHESTER, Los Angeles. DELBERT NICHOLSON (5518-232, Ext. 2792), KI. 0784. (8-1-3)

(Zone 4)
MAIN & 117TH. (Via Imperial), Los Angeles. HAROLD BATISTE (5534-403, Ext. 2244), PL. 5-5544. (8-1-4)

(Zone 5)
WESTERN & EL SEGUNDO, Gardena. ROSE MARIE MITCHELL (5504-273, Ext. 4141), ME. 9-2694. (8-1-5)

(Zone 6)
VICTORIA & AVALON, Gardena. L. W. HOLT (5588-646, Ext. 1529 or 1938). (8-1-6)

(Zone 8)
PALOS VERDES DRIVE & WESTERN, Lomita. HELEN WILSON (5507-291, Ext. 564), DA. 6-5803. (8-1-8)

(Zone 11)
INGLEWOOD AVE. & 120TH, Hawthorne. GLADYS L. BENSON (5503-491, Ext. 2681). (8-1-11)

HAWTHORNE BLVD. & 120TH ST. (Even a ride at 1:15 a.m. to Hawthorne Blvd. would be a big help! Good pay), Hawthorne. CLAIRE WISEL (5585-424, Ext. 2037). (8-1-11)

(Zone 14)
VENICE & LA BREA, Los Angeles. JIM M. GRIDER (5585-221, Ext. 1381), WE. 8-1156. (8-1-14)

RIDES WANTED

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 1)
WASHINGTON & ALVARADO OR HOOVER. (Hours 3:00 p.m. to 11:30 p.m.), Los Angeles. JACQULINE JEAN BAYTE (4250, Ext. 588), RI. 8-8425. (10-1-1)

Lynwood

OCEAN AVENUE & MAIN ST., Seal Beach. LOUIE URES (6325-18, Ext. 229). (2-Lynwood-6)

NRC SPORT CARS HOLD GYMKHANA NEXT SUNDAY

Wheels will sing again, gymkhana style, as sports car owners from North American and Hughes meet with NRC Sport Car Norcrafters on the Northrop parking lot, gate 4, next Sunday morning at 11:00 a.m., October 25.

October's meeting, in accordance with the usual monthly test of skills, will find the sports motorists competing in parking, backing and braking categories, as well as many others to be announced that morning, as reported by Bruce Vernier, club commissioner.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 637. NRC Clubhouse is located at 175 N. Hawthorne Boulevard

BOWLING
Florence Rice, commissioner
Ladies Handicap League in progress at Torrance Bowl, Tues. 6:30 p.m.

DINNER CLUB
Cahty Waffel, commissioner
Next meeting Oct. 30, Hallowe'en party (men included).

FLOWER CLUB
Mary Nelson, acting commissioner
Meet first and third Tues. of each month. NRC Clubhouse, 7:30 p.m. New members welcome.

GOLF CLUB
New series of golf lessons now available Culver City Course. Tues. 7:00 p.m. For more information, call PA&S, 637.

INTERIOR DECORATING
Meet every Thurs. NRC Clubhouse. Upholstery instruction provided.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m. NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP MARINERS
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday 7:00 p.m. Scout cabin, 135 Grevillea, Hawthorne. Dance planned for November 7. For details Call PA & S, 637.

SLIM 'N TRIM
Meet every Monday, 7:30 p.m., NRC Clubhouse.

TOASTMISTRESS
Marie L. Sauer, representative
Meet first and third Thursday, NRC Clubhouse. 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below. call or contact Personnel Activities and Services, Plant One, 637; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BALLROOM INSTRUCTION
First fall meeting Oct. 24. Everyone welcome.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily, Plaster Shop tent 11:00 a.m. Plt. 1, Second Floor, center conference rm. Plant II, 12:30, Conference Rm. 5. 12:15 Plant Three.

BOAT CLUB
Harold Senter, Commissioner
Next meeting Nov. 2, 7:30 p.m., NRC Clubhouse. Final plans for dance.

BOWLING (DAYS)
Chuck Carson, commissioner
Tournament planned for Xmas Holiday Season. See story, this page.

BOWLING (NIGHTS)
Tony Cardoza, commissioner
Applications (team or individual) being accepted for mixed Hdcp. League planned for Thurs., 1:30 a.m. Paradise Bowl. See story, this page.

BRIDGE
Bill Glose, acting commissioner
Meet first and third Tuesdays each month, 7:30 p.m., NRC Clubhouse.

CAMERA CLUB (DAYS)
Walt Darby, commissioner
Next meeting, Friday, Oct. 23, 8:00 p.m. NRC Clubhouse Annex.

CAMERA CLUB (NIGHTS)
Adams Slusarz, Act. Commissioner
Next meeting Saturday, Oct. 24, 8:00 p.m., NRC Clubhouse. Model night & Lab. session. Movies.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (DAYS)
Jim Milne, commissioner
Scheduled monthly meets as posted on Bulletin Boards.

GOLF CLUB (NIGHTS)
Bill Levens, commissioner
Tournament starting Mon., Oct. 26, Western Avenue, 8:30 a.m. New league now forming.

GUN CLUB
Dick Wood, acting commissioner
Meet every other Tues., 7:30 p.m., NRC Clubhouse. Next meeting Oct. 27.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m., 1016 No. Market St., Inglewood. Sunday, 9:00 a.m. to 12:00 noon.

PHILATELIC CLUB
George Borton, commissioner
Philatelic & Numismatic combined club meets 2nd & 4th Mondays each month, NRC Clubhouse, 7:30 p.m. Next meeting Oct. 26.

RIDING CLUB
Cliff Snudden, commissioner
Moonlight Ride & Wiener Roast, Sat., Oct. 24, 7:00 p.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, Oct. 22.

SEA SCOUTS
Frank Ziegler, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Oct. 31. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Oct. 30, NRC Clubhouse Board Room.

SOFTBALL
Paul Wheeler, commissioner
Annual Open "Black Bat" Tournament now in progress.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse. Gymkhana Sun., Oct. 25, 11:00 a.m.,, Northrop Parking lot, Gate 4. North American & Hughes Aircraft invited.

SQUARE DANCING
Dave Dyer, commissioner
Meet every Sunday eve., 7:00 to 10:00 p.m., NRC Clubhouse annex. Sunday, Oct. 25, Halloween party. (See story, this page.)

SURF FISHING
Ted Griswold, acting commissioner
Meet 1st Tuesday each month, NRC Clubhouse, 7:30 p.m. Next meeting Nov. 3, is Beginners Night.

TOASTMASTERS (DAYS)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS (NIGHTS)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon. Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Orval Coley, commissioner
Next meeting Wednesday, Oct. 28, 7:30 p.m., NRC Clubhouse.

HALLOWEEN DANCE ROUNDUP

COSTUME PRIZES, DANCING FEATURED

Northrop Halloween dances show promise of outnumbering the pumpkins this year as Hawthorne departmental, NRC and Anaheim Division Norcrafters ready themselves for a heavy schedule of fun-raising October festivity.

In addition to dancing, a common feature of all the affairs is the award of prizes for costumes, although wearing of same is optional.

Some 1500 Norcrafters of the Industrial and Plant Engineering division can look forward to Saturday night, October 31, when the "World Travel" theme decor of the Fox Hills Country Club shall welcome them to an evening of fun-raising, rhythm and foreign fashion from 9:00 p.m. till 1:00 a.m.

The folks will come in costumes designed after those of other lands, and there'll be door prizes, plus costume awards.

Lineup of costume judges for the division's gala night will be strictly high caliber, including Kenneth P. Bowen, vice-president in charge of Manufacturing; and Lieutenant Colonel C. W. Tennant, Air Force plant representative.

Working out the details of arrangements for the dance are Roger Schuyler and Ralph Schaffer, both appropriately of Master Planning. Byron Harkins will supply the music.

Northrop Test Groups

The Engineering Test, Flight Test and Lab Test departments are also planning a Halloween dance for Saturday night, October 24, from nine till one, at the Alondra Park Club, 16400 South Prairie Avenue. Giggie Royse's orchestra is featured.

J. G. McDaniel (Lab Test) reports it will be a Halloween costume evening, though costumes are optional, and that there will be a number of door prizes.

Committee—besides McDaniel—includes Eva Johnson, Doug Craig and Johnny Johnston. Harvey Heaverlo and Betty Schmidt have tickets in Flight Test, with Edith Carmichael, Martha Potts and Gladys Meyers covering for Engineering Test.

NRC Women's Dinner Club

The Women's Dinner Club, according to Commissioner Cathy Waffel and Betty Jo Razor, hostess of the month, will be having their Halloween party — MEN invited — on Friday night, October 30, in the NRC Clubhouse.

Highlight of the night will be the traditional Halloween party games, with music and buffet.

Square Dance

Halloween hoedown time for NRC square dancers is scheduled for Sunday evening, October 25, from 7 to 10 p.m. in the NRC Clubhouse.

Dave Dyer, commissioner of the club, announces that Clubhouse decorations will be styled to accommodate square dancers costumed for the occasion.

"Special feature will be a prize for the most gruesomely dressed . . ." adds Dyer, "plus awards for the best dressed man and woman."

Anaheim Division

Anaheim Division, in the truly exceptional and nationally famous spirit of the community of Anaheim at Halloween time, will stage its second annual Masquerade Ball next Saturday, October 24.

Set for the Santa Ana American Legion Clubhouse, the special spotlight will fall upon the recently formed all-Norcrafter orchestra managed by drummer Herb Herbert.

After weeks of practice — mostly in the cool musical spheres—the orchestra approaches its Halloween unveiling. Besides the debut, the orchestra has the added responsibility of Masquerade Ball sponsor this year.

NRC Tropical Fish Folk Will Hear Guppy Expert

Rare guppies and other tropical fish will swim into the mainstream of NRC activity as Norcrafters of the recently formed Tropical Fish Club meet for the fourth time—first with newly elected Commissioner Orval Coley at the helm—on Wednesday night, 7:30 p.m., October 28, in the NRC Clubhouse.

Commissioner Coley announces that aquaria enthusiasts will be feted to a colorful and highly informative presentation at the meeting by guest speaker Randy Rieneke, president of the Long Beach Aquarium Society and Sweepstakes Award winner of the recent Los Angeles Aquarium Society Show.

Rieneke, one of the foremost local experts on home aquaria and tropical fish, has, in addition to winning Sweepstakes Award in the show presented at the Los Angeles County Museum of Science, taken home numerous championship awards over many years for his fine aquatic displays.

Norcrafters interested in tropical fish stand to gain considerable insight into the fascinating and growing hobby as speaker Rieneke relates his thorough knowledge as a breeder and exhibitor of exotic aquarium fish.

Rieneke is at present specializing in the hybridizing and breeding of rare guppies, being concerned especially with color types and fin growth.

Orval Coley, commissioner, and Ron Wiggins, secretary-treasurer of the Tropical Fish Club, in describing the future program of the club, comment, "It's a fascinating hobby and our idea is to present a program of general interest on home aquaria and tropical fish to all interested Norcrafters. We'll have varied programs, usually built around guest speakers who are specialists in their fields, and we'll use quite a lot of motion pictures and color slides. Everyone's invited . . ."

Norcrafters who've been eyeing their fireplace mantles with a view to setting up an aquarium now have their chance.

Night Holiday Events Quicken Kegling Pulse

Two recent NRC announcements indicate the increased autumn pulse rate among Northrop keglers.

Most recent is the call for sign-ups by night shift team captains interested in forming possibly four teams for NRC sponsorship in the Aircraft Mixed League — quintets with maximum 825 handicap — to play Wednesday nights after work, beginning at 1:30 a.m., at Paradise Bowl.

Keglers from Douglas, North American, Hughes and AiResearch may be in the league, depending upon sign-ups. Norcrafters interested should call Personnel Activities and Services, extension 637.

Reminder of the Christmas holiday bowling tourney to be held at Hawthorne Bowl was the second NRC announcement. To start December 26 and continue till completed, events will fall into a maximum variety of categories under teams, doubles and singles; men, women and mixed.

Handicaps will be: girls, two-thirds to 200; men, two-thirds to 190.

Entries for the Christmas tourney opened October 19, and Norcrafters have until November 23 to sign up. Blanks can be obtained at PA&S, Plants One and Three.

CAGERS FORMING EARLY FOR PLAY IN NOVEMBER

The NRC Basketball fraternity, according to Larry Baird, acting commissioner, is issuing a call for players to form a preseason league.

Play will begin on Monday, November 2, at Leuzinger, and games will be scheduled on Monday and Thursday nights throughout the season. Regular Winter league play will get under way January 4.

Entry blanks are available at PA&S, Plants One and Three, and must be filled out and returned by deadline date—October 30.

Grunion Run A Lot of Fun For Ikesters

By Joe Cribbs
President
Northrop Recreation Club

There are no die-hards who can quite match the fisherman—even he who goes off after the vague grunion! The Fish and Game booklets listed grunion runs for June, July and August, 1953, and none thereafter until March of next year. (Season closed in April and May). But the true grunion-chaser among Norcrafters believes that grunion don't read the tables, anyway, and come high tide, he's out on the beach — where NRC Surf Fishing clubmen abound — with trousers rolled to knees, wet and shivering, with hope eternal in his breast that the shining silvery horde will show up tonight! (Seems that nothing will convince the Doubting Thomas, though, that the grunion run is not in the same category as the snipe hunt!) Believe me, the grunion do run and people do catch them. I personally have caught them all the way from singles to bucket fulls. Grunion hunting makes a wonderful evening. Try it sometime.

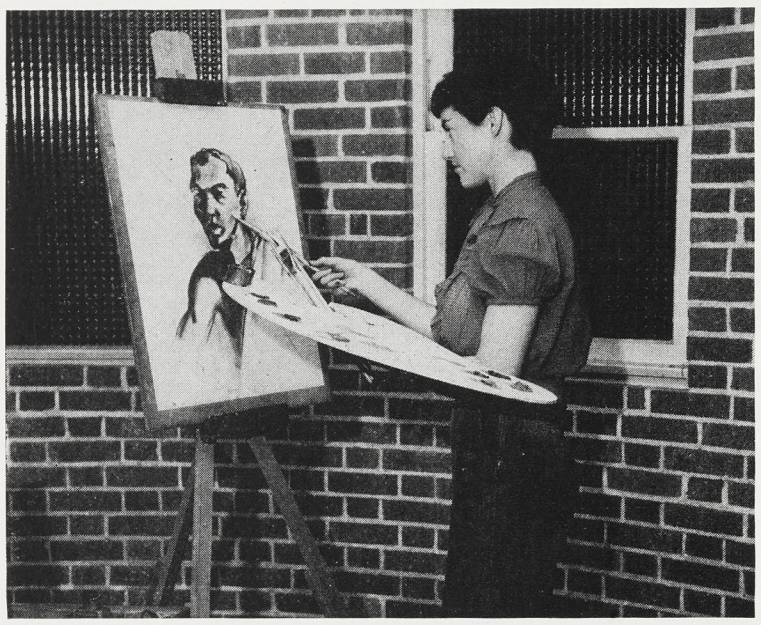
Joe Cribbs

★ ★ ★

Particulars promised on the Grimes Community Hunting area have arrived. I have two application blanks for season passes and pertinent details. Season pass details: For application blanks — $5.00—apply through Personnel Activities and Services or direct to Grimes Community Hunting Area, Inc., Grimes—Colusa County, California. Hunters will get: season pass for daily hunting plus arm band and map of the area. — Daily pass details: Obtain at the Field Check Station—price $1.00. Seven-hundred and fifty per day will be issued . . . Grimes hunting area is a considerable distance from Northrop — approximately 45 miles north of Sacramento—but for Norcrafters who like good hunting with a good trip thrown in, this should be the ticket. Grimes area consists of 20,000 acres. Admittance set-up insures 12½ acres per man . . . Recommendation: I would get the season pass. Cooperation will be extended to Norcrafters from the Grimes hunting area. Mention this column or the Northrop News if you apply direct. Get your application early . . . Regarding the daily permits—there might be a line up and probably long before breakfast . . . Pheasant season—November 21-30 . . . For any additional details contact Personnel Activities and Services.

THE Northrop Scene BY DAY AND NIGHT

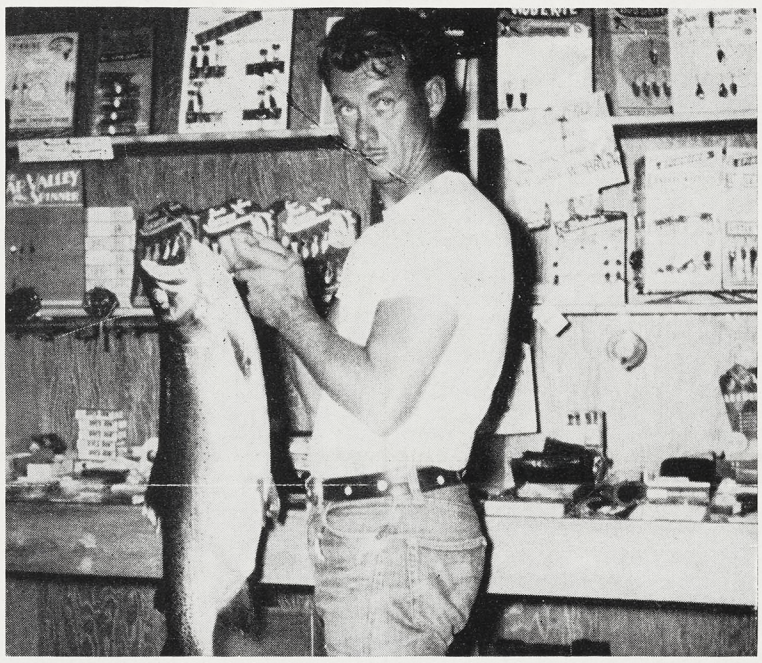
NRC Art Show Deadline Nears



MYRNALEE BRAINARD, Blueprints, NRC Art Club member, reminds Norcrafters there are only twenty-nine days left in which to enter Seventh Annual Purchase Prize Exhibit. Three cash purchase prizes, sweepstakes trophy and seven honorable mentions await talented Norcrafters. For more details, see Art Show rules, page 2.

Maiden Voyage

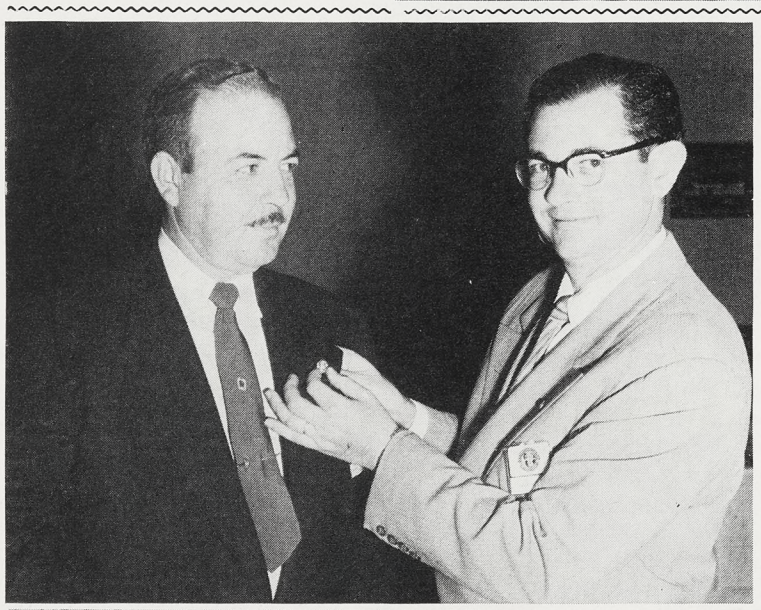
SHAKEDOWN CRUISE for Duane Grosart's new boat was purpose of recent over-night cruise to Catalina Island. NRC Boat Club members, photo'd in Duane's boat, are, from left, front: Claudia Stratton, Harold Dawson, Betty Dawson and Grosart. Back row: Phyllis Ward, Herb Ward, Harold Senter, commissioner; Elmer Chiodo, Helen Chiodo and Georgia Grosart. Boat Club's Annual Beachcombers' dinner-dance will be on November 28. See details next issue.



BISHOP DERBY'S biggest rainbow trout this year was caught by Norcrafter Bob Graeber, Muroc, at McGee Creek, near Bishop. The trout, which measured 30" and weighed 15 pounds, 2 ounces, also won for Bob the annual NRC fresh water fish trophy; is reputed to be among biggest inland trout caught nationally. Annual saltwater trophy was won by John Pawlicki, of Inspection, for his 90-pound bat ray.

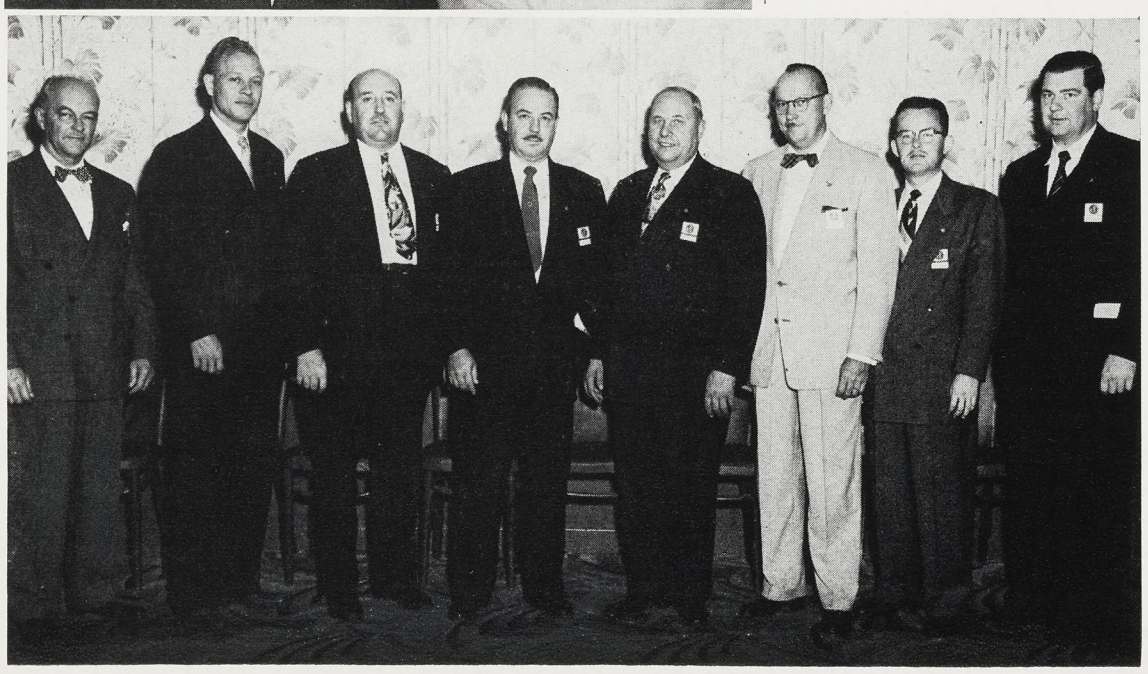
Glimpse of History

SANDS OF TIME have been blown away by jet engine blasts on lake bed at Muroc, revealing in solidified sandstone the tracks of two-wheeled carts and the hoof-prints of oxen. Reminders of a bygone era are under study, in photo above, by Carroll O. Wheeler, Flight Test Instrumentation. Old-timers state that Spanish ox-drawn carreta took longer to cross Rogers Dry Lake than it did for F-89 to hop to Dayton!



Toastmaster Prexy

OUTGOING PRESIDENT Jack Akin (right) presents current president's lapel emblem to newly-elected president Glen Jackson. Pin is worn by each president during his term of office, then passed on to his successor. Outgoing presidents receive past-president's pin at end of 6-month term.



INSTALLATION of new officers for NRC Toastmasters #212 was occasion of dinner meeting at Western Club on October 1. From left, are: Herb Putnam, educational chairman (Ontario); Doug Johnson, treasurer (Electrical Engineering); Henry Cooper, secretary (Standard Tooling); Glen Jackson, president (Time Standards); Fred Garlock, District 1 governor of Toastmasters International; Lorne Bristol, deputy governor (Electrical Engineering); Ernie Boren, vice president, (Accounting); Jack Jeffcoat, sergeant-at-arms (Wage and Salary). Awards galore were presented during the meeting, including trophy to John Enright, Industrial Engineering, who was voted best speaker of the year.

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California — Wednesday, November 4, 1953

BBSF Classifieds

(See Page 5)

NRC EVENT OF THE YEAR

TICKET COMMITTEE makes final plans for big Norcrafter "Private Party" at the Palladium scheduled for December 5. From left: Martha Nokes, NRC representative; Joe Carver, NRC veep; Scotty Hill, department clerk—Quality Control; and Ash Dunning, chairman of Special Events Committee. Tickets go on sale today at all plants and all facilities. Contact NRC officers, commissioners, representatives, and department clerks, plus Personnel Activities & Services offices.

DECEMBER 5 REVEALED AS DATE OF BIG 'PRIVATE PARTY'

The secret is out, as all secrets will out!

The "date Norcrafters rate"—speculation on the "teaser-type" headline in the last Northrop News was intense—is a high-flying, spectacular private party and dance for Norcrafters only at the world-famed Hollywood Palladium on December 5!

With Benny Strong's orchestra featured, the NRC's top social event of 1953 will be on the air from coast to coast on a national radio hook-up. The Palladium will be the Norcrafters' private stamping grounds that night, the NRC having "bought out the house".

Only a nominal admission fee is being charged to Northrop personnel—fifty cents—with the ducats going on sale beginning today. They are available from all NRC officers, commissioners, or representatives; from department clerks; and from Personnel Activities and Services offices.

Tickets are limited in number, NRC Prexy Joe Cribbs warns, and will be allocated to departments in proportion to their personnel count.

Dinner reservations will be available, although dinner is, of course, optional. These reservations also are limited, and should be made at the earliest convenience of the Norcrafters wishing them at PA&S, extension 637. Full course dinners start at $1.95.

A high-caliber, top-notch program of events for the evening is being planned by a committee consisting of PA&S Manager Charles G. Boyle, NRC President

(Continued on Page 2)

MAESTRO Benny Strong and his celebrated orchestra will be on the stand for the NRC Palladium "Private Party."

Red Feather Review on At Northrop

The Red Feather—sure sign of fall—is currently reminding Norcrafters who contribute through the Combined Charities Plan to review their contributions.

And it's a colorful request, too, to those who have not yet been able to contribute, to check their resources to see if they can now add to the gigantic total needed to support the scores of Red Feather welfare agencies.

The Combined Charities Plan is the painless, payroll deduction way of making charity dollars go farther. The simple payroll deduction form is tipped in on page three; Norcrafters need only to fill it out and return it to their department clerks.

The annual appeal has more than the usual interest among personnel. Recently released CC figures show that in the first three months of this year alone, 1062 Norcrafters or members of their families received aid from Red Feather agencies. The figure does not include youth services such as Boy and Girl Scouts, Woodcraft Rangers, boys clubs, or community centers.

Individuals who will continue their present contributions need not turn the cards in. But even present contributors are gently reminded by Red Feather headquarters that 164 agencies share in the sought-for ten million dollars! That's two million dollars more than last year . . .

Charity Slogan Contest Open to All Norcrafters

"I Support Northrop Combined Charities because . . . . . "

All Norcrafters are invited to complete the above in twenty-five words or less and thereby participate in the Southern California Red Feather slogan contest now underway.

Prizes for the best statement range all the way from expense-free week-ends for two at the St. Francis in San Francisco and the Palm Springs Biltmore through a list of twenty-nine prizes including such items as merchandise orders, pressure cookers, suitcases, picnic sets, ad infinitum.

The Red Feather slogan contest, a project under the wing of the Southern California Industrial Editors Association, is being sponsored at Northrop by the Northrop Recreation Club and the Northrop Management Club.

Norcrafter slogan judging committee is composed of: NRC President Joe Cribbs; Paymaster George Forbes; Northrop Man-

(Continued on Page 2)

Because - - !

SLOGAN JURY discusses rules for Combined Charities slogan contest, "I support Northrop Combined Charities because . . ." From left: NRC Prexy Joe Cribbs, Paymaster George Forbes, Bill Schramm, representing the Management Club, and Harry Clark, PA&S assistant manager. All Norcrafters are eligible to enter the contest. Story this page.

Northrop Combined Charities Slogan Contest

(Print or typewrite your statement and mail immediately to Personnel Activities & Services office, Department 4270, Plant One, Mail Zone 12. Deadline for entries November 23, 1953.)

I support Northrop Combined Charities because_____

_____

_____

_____

_____

*Name:*_____ *Clock No.:*_____

*Dept. No.:*_____

(For additional forms contact your department clerk.)

Gala Affair for M-C Folk

ATTENTIVE AUDIENCE at Management Club's annual dinner-dance October 24 was spellbound by Bill Gove, Minnesota Mining and Manufacturing Company, speaker of the evening. In appreciation, Management Club presented Gove with model of Scorpion. Presentation was made by M-C President Charles Bradford, left, with Cy Perkins, program chairman, and Charles Murray, immediate past president, looking on at right. Cocktail party, dinner preceded speech by Gove; floor show featuring Hilo Hattie and her Islander Room troupe followed, with dancing completing evening's activities. Affair was in Hawaiian motif . . . leis were worn by all members. Hollywood Roosevelt was scene. Decorations for the evening's colorful festivities were furnished by United Airlines.

Night Shift Toastmasters

NIGHT SHIFT TOASTMASTERS (#398) meet weekly at the Western Club on Thursday for lunch. The group will hold its charter night on November 14, with representatives of Toastmasters International scheduled to make the charter presentation. Seated: Ken McBride, Harry Timmerman, Ned Reese, Dick Kubach, Barney Rentz, Gordon McDonald, Dave Leedy, and Oscar Hakala. Standing: Gene Gruber (representative), Bud Burns, John Kincaid, Al Aguiar, Ward Newton, John Duncan, Lee Rondot, Harry Bodell, Ken Davidson, and Merle Childress. Number of other night shift members were absent when photo was taken. Northrop boasts five TM groups, including two at Anaheim.

Slogans by Norcrafters

(Continued from page 1)

agement Club Sgt. at Arms Bill Schramm; and Assistant Personnel Activities and Services Manager Harry Clark.

Deadline for slogans to be mailed to Personnel Activities and Services is Monday, November 23, 1953.

The committee will pick the top 10 per cent of all slogans submitted for final judging by a panel of Los Angeles area newspaper men headed by Matt Weinstock of the Daily News and Nick Williams of the Los Angeles Times.

In addition, Norcrafter judges will award a $25.00 Defense Bond to the five best (in their opinion) slogans from the plants.

The judges will consider mainly the sincerity and clarity of the slogan. No special writing ability is needed to win.

Coupon for submitting entries is printed in this paper. Each Norcrafter may submit one entry with the exception of the Northrop News staff—they are ineligible.

Complete list of prizes is as follows:

Five $25.00 Defense Bonds for the five top Norcrafter slogans. (These awards go to Norcrafters only.)

General area prizes in which Norcrafter slogan writers will be competing with other Southland industries are:

First Prize — Expense-free weekend for two at San Francisco's Hotel St. Francis via Western Airlines.

Second Prize — Expense-free weekend for two at Palm Springs' Palm Springs Biltmore via Western Airlines.

Other prizes—two $25.00 merchandise orders, two pressure cookers, one box of cheese products, a miniature Bekins van, one deep fat fryer, two $15.00 merchandise orders, one $10.00 merchandise order, two $25.00 Savings Bonds, $10.00 cash prize, two picnic sets, one case of tuna, one kitchen stool with seat and folding ladder, one treasure chest of plastic articles.

One set of four folding tables, two cases of household detergent, one basket of dairy products, a year's L.A. Times subscription, portable heater-cooler, lady's or man's suitcase, a three-way flashing lantern for emergency highway use, a year's subscription to Fortune, a $20.00 gasoline coupon book, two $10.00 or one $20.00 savings account, Revere Ware.

Northrop Bridge Champ Will Junket to France

Bridge championship of the world will be decided somewhere in France during the month of January — and an Engineering Norcrafter will be a member of the competing American team.

Douglas Steen, laboratory analyst, Department 3233, is a member of the quintet which won the World Masters Team Championship in St. Louis, August 12. The team consists of five members—one of whom is on standby.

European teams competed last month in Helsinki, Finland. Result of the competition was an upset. Experts were of the opinion that one of the Scandinavian teams would win. In winning, the French team also won the right to name the French city in which the January match will be played.

Average age of the American group is 29 years, according to Steen, who, himself, is 28. Steen has been with the company for two and a half years and has been playing bridge for 16 years.

Doug Steen

The STORK CLUB

Half Dozen Ruffs

"Oly" and Nell Ruff, Tool Fabrication, announce the birth of baby daughter Deborah Lucille, born August 15, 1953, at 1:27 p.m. Little Deborah arrived via Pomona Hospital weighing 7 pounds, 3 ounces. Other Ruffs in the household are brothers Olin, 16, and Calvin, 5, and sisters Nell 15, Willamina, 10, and Rosalind, 4.

Kishes' Little Ronald

"Marty" and Charlotte Kish, (he of Tooling; she of Hydraulics and Plumbing) are the proud parents of a second son, Ronald Dean, born September 1, 1953. Little Ronald, weighing 7 pounds, 4½ ounces, arrived at Mission Hospital, Huntington Park, at 7:37 p.m.

Big brother, Marty, 1½, moved over to make room in the nursery for the newcomer.

Osbornes in the Headlines

Robertson and Miriam Osborne, Engineering Test Lab, became parents on September 3, 1953, with the birth of baby son David Louis. Little David, weighing 8 pounds, 3½ ounces, arrived at the California Hospital at 2:10 p.m.

Victoria Van Gorder

Jack and Betsy Van Gorder, Engineering Services, became parents on September 28, 1953, via birth of daughter Victoria. Little Victoria was born in California Hospital at 11:45 p.m., weighing 6 pounds, 3½ ounces.

CIVIL DEFENSE OFFICE SEEKS FIRST AIDERS

Norcrafters who hold American Red Cross First Aid cards have been requested to register with the Northrop Civil Defense office, if they have not already done so.

The request comes from L. J. "Jerry" Baker, coordinator of Civil Defense at Northrop.

"We would appreciate it if Norcrafters qualified in Red Cross First Aid training would contact the C-D office," Jerry said. "The phone extension there is 1972."

Dance

(Continued from page 1)

Joe Cribbs, NRC Special Events Chairman Ash Dunning, and Palladium Manager Sterling Wey.

The broadcast from the Palladium will be aired from 8:30 to 9:00 p.m. The nation-wide hook-up is followed, at 11:00 p.m., by a half-hour broadcast over regional stations.

Credited with having one of the most distinctive and familiar musical styles in the orchestra world today, Benny Strong's scintillating outfit features Milly Coury, Kenny Jackson, and Bernard Press.

The modern dance program will include entertainment features such as comedy ensemble singing and novelty numbers.

Designed exclusively for Norcrafters, the private party is one of the largest projects undertaken by the NRC. A capacity turnout is expected to attend, starting the pre-holiday season in gay and festive manner.

Northrop News

Vol. 12 Northrop Field, Hawthorne, Calif. No. 8

Published every other Wednesday by
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JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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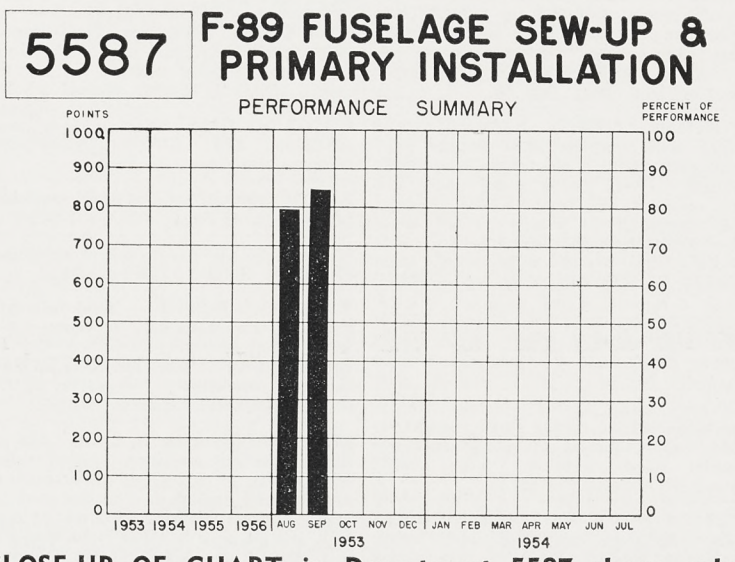
Performance Summary

Eighty cents of every Chest dollar goes for children.

Give Every Child A Chance

Take this card to your department clerk. She will help you enroll for Red Feather support in the Northrop Combined Charities Plan.

facturing and Materiel divisions. Shown is Penny Barnum, Department 5587, as she learned to apply to chart figures from performance reports. At her right: Foreman Leo Sachs; at her left, Ron Hall, Manufacturing, who administers competition program. Charts are summaries—



CLOSE-UP OF CHART in Department 5587 shows only the summary, or top half of chart. Bottom half shows individual categories which add up to summary. As clearly shown, this department demonstrated distinct improvement over previous month's figures, result of teamwork among department personnel competing with other departments.

Bill Aldrich Is Named Manager of Anaheim IR

The appointment of W. L. "Bill" Aldrich as manager of Industrial Relations at the Anaheim Division was announced October 13, by R. R. Nolan, division manager.

Roger McGuire, who formerly held the post, has been granted an extended leave of absence because of illness, Nolan reported.

Aldrich has been assistant manager of the department since he joined the Anaheim division in January of this year. Before that, he had been assistant manager of Engineering personnel at the Hawthorne plant.

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SCORPIONS NOW IN ALASKA

D 24-HOUR GUARD AT ELMENDORF

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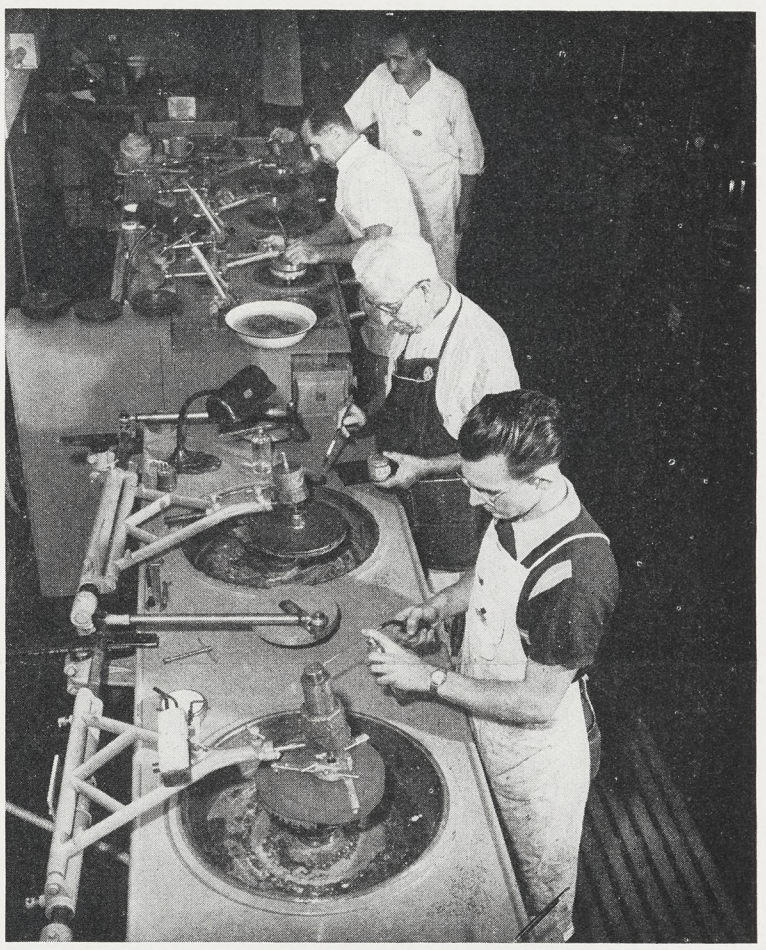
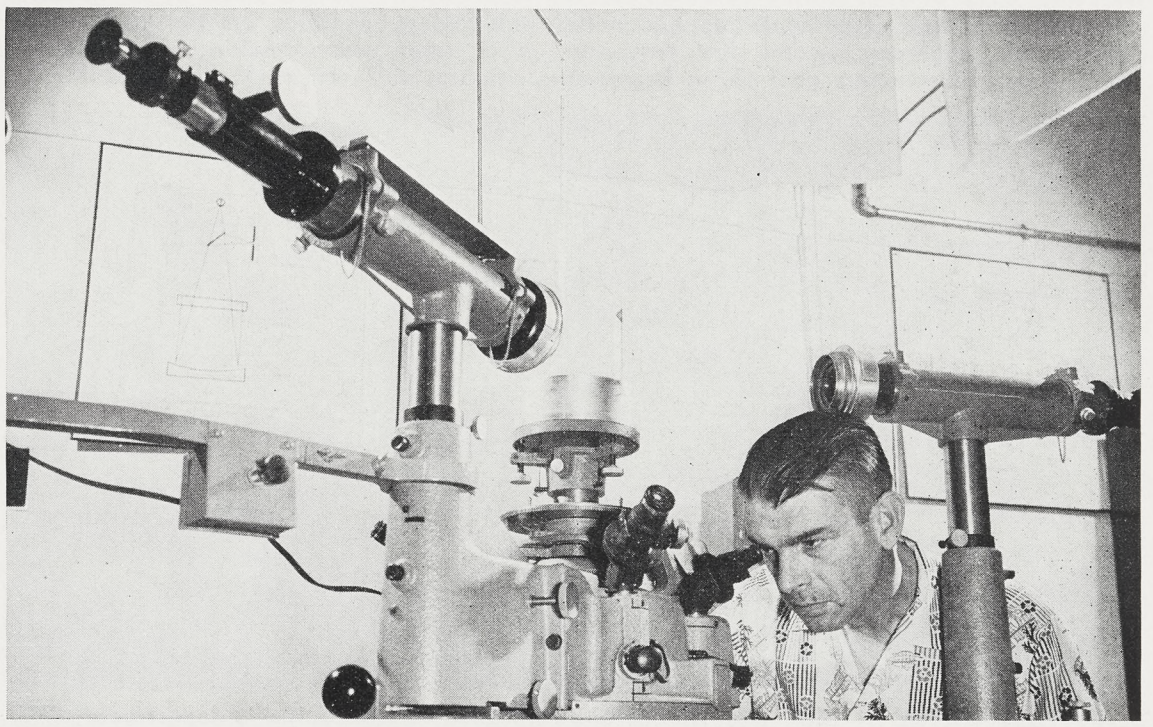
Pasadena Precision



JET-AGE TECHNIQUES are applied to centuries-old craft of lens grinding at the Pasadena lab—Northrop's Crown City facility dealing with millionth-of-an-inch precision in optics. At the mechanical polishing bench, from camera—Norcrafters Darrel Wilcox, Frederick Cindel, Hans Winkler, and Otto Hartmann, assistant shop foreman. Final lens polishing is done by hand for the very closest accuracy on finish.



PASADENA LAB'S spectrometer is only one of the rare instruments placing this Northrop facility among the very few high-precision optical experimental units on the Pacific Coast. Fred Vogler, research lab analyst peering into the eyepiece of the spectrometer, measures telescope lenses, prisms and other optical pieces to an accuracy of a one second arc. Optics require precision for Northrop's varied aircraft, range-finder programs.

Gala Affair for M-C Folk

ATTENTIVE AUDIENCE at Management Club's annual dinner-dan spellbound by Bill Gove, Minnesota Mining and Manufacturing Com evening. In appreciation, Management Club presented Gove with model of Scorpion. Presentation was made by M-C President Charles Bradford, left, with Cy Perkins, program chairman, and Charles Murray, immediate past president, looking on at right. Cocktail party, dinner preceded speech by Gove; floor show featuring Hilo Hattie and her Islander Room troupe followed, with dancing completing evening's activities. Affair was in Hawaiian motif . . . leis were worn by all members. Hollywood Roosevelt was scene. Decorations for the evening's colorful festivities were furnished by United Airlines.

Night Shift Toastmasters

NIGHT SHIFT TOASTMASTERS (#398) meet weekly at the Western Club on Thursday for lunch. The group will hold its charter night on November 14, with representatives of Toastmasters International scheduled to make the charter presentation. Seated: Ken McBride, Harry Timmerman, Ned Reese, Dick Kubach, Barney Rentz, Gordon McDonald, Dave Leedy, and Oscar Hakala. Standing: Gene Gruber (representative), Bud Burns, John Kincaid, Al Aguiar, Ward Newton, John Duncan, Lee Rondot, Harry Bodell, Ken Davidson, and Merle Childress. Number of other night shift members were absent when photo was taken. Northrop boasts five TM groups, including two at Anaheim.

Slogans by Norcrafters

(Continued from page 1)

agement Club Sgt. at Arms Bill Schramm; and Assistant Personnel Activities and Services Manager Harry Clark.

Deadline for slogans to be mailed to Personnel Activities and Services is Monday, November 23, 1953.

The committee will pick the top 10 per cent of all slogans submitted for final judging by a panel of Los Angeles area newspaper men headed by Matt Weinstock of the Daily News and Nick Williams of the Los Angeles Times.

In addition, Norcrafter judges will award a $25.00 Defense Bond to the five best (in their opinion) slogans from the plants.

The judges will consider mainly the sincerity and clarity of the slogan. No special writing ability is needed to win.

Coupon for submitting entries is printed in this paper. Each Norcrafter may submit one entry with the exception of the Northrop News staff—they are ineligible.

Complete list of prizes is as follows:

Five $25.00 Defense Bonds for the five top Norcrafter slogans. (These awards go to Norcrafters only.)

General area prizes in which Norcrafter slogan writers will be competing with other Southland industries are:

First Prize — Expense-free weekend for two at San Francisco's Hotel St. Francis via Western Airlines.

Second Prize — Expense-free weekend for two at Palm Springs' Palm Springs Biltmore via Western Airlines.

Other prizes—two $25.00 merchandise orders, two pressure cookers, one box of cheese products, a miniature Bekins van, one deep fat fryer, two $15.00 merchandise orders, one $10.00 merchandise order, two $25.00 Savings Bonds, $10.00 cash prize, two picnic sets, one case of tuna, one kitchen stool with seat and folding ladder, one treasure chest of plastic articles.

One set of four folding tables, two cases of household detergent, one basket of dairy products, a year's L.A. Times subscription, portable heater-cooler, lady's or man's suitcase, a three-way flashing lantern for emergency highway use, a year's subscription to Fortune, a $20.00 gasoline coupon book, two $10.00 or one $20.00 savings account, Revere Ware.

Northrop Bridge Champ Will Junket to Frange

NORTHROP COMBINED CHARITIES PLAN

FOR 59-208 (REV. 3-51)

DEPARTMENT	BADGE-CLOCK NO.

AS A CONTRIBUTION TO THE COMMUNITY CHEST, LOS ANGELES AREA, AND/OR THE AMERICAN RED CROSS, I HEREBY AUTHORIZE NORTHROP AIRCRAFT, INC. TO DEDUCT THE SUM INDICATED BELOW, FROM MY PAYCHECK EACH PAYROLL PERIOD, SUCH DEDUCTION SHALL CONTINUE UNTIL I GIVE WRITTEN CANCELLATION OF THIS AUTHORIZATION. YOU ARE INSTRUCTED TO DISTRIBUTE THIS AMOUNT AS FOLLOWS:

☒ CHECK ONE ☐ BOTH { LOS ANGELES COMMUNITY CHEST / AMERICAN RED CROSS

TO BE ALLOCATED PERCENTAGE WISE BASED ON THE RESPECTIVE GOALS AS ESTABLISHED BY THE ABOVE AGENCIES.

☐ 100% TO LOS ANGELES COMMUNITY CHEST

☐ 100% TO AMERICAN RED CROSS

(PLEASE CIRCLE AROUND AMOUNT OF WEEKLY DEDUCTION YOU DESIRE TO MAKE)

.10 .20 .30 .40 .50 .75 $1.00

SOLICITOR

SIGNATURE

HOME ADDRESS

CITY PLANT

NOTE:

YOUR CONTRIBUTION WILL BE CREDITED TO THE AREA IN WHICH YOU LIVE.

The STORK CLUB

Half Dozen Ruffs

"Oly" and Nell Ruff, Tool Fabrication, announce the birth of baby daughter Deborah Lucille, born August 15, 1953, at 1:27 p.m. Little Deborah arrived via Pomona Hospital weighing 7 pounds, 3 ounces. Other Ruffs in the household are brothers Olin, 16, and Calvin, 5, and sisters Nell 15, Willamina, 10, and Rosalind, 4.

Kishes' Little Ronald

"Marty" and Charlotte Kish, (he of Tooling; she of Hydraulics and Plumbing) are the proud parents of a second son, Ronald Dean, born September 1, 1953. Little Ronald, weighing 7 pounds, 4½ ounces, arrived at Mission Hospital, Huntington Park, at 7:37 p.m.

Big brother, Marty, 1½, moved over to make room in the nursery for the newcomer.

Osbornes in the Headlines

Robertson and Miriam Osborne, Engineering Test Lab, became parents on September 3, 1953, with the birth of baby son David Louis. Little David, weighing 8 pounds, 3½ ounces, arrived at the California Hospital at 2:10 p.m.

Victoria Van Gorder

Jack and Betsy Van Gorder, Engineering Services, became parents on September 28, 1953, via birth of daughter Victoria. Little Victoria was born in California Hospital at 11:45 p.m., weighing 6 pounds, 3½ ounces.

CIVIL DEFENSE OFFICE SEEKS FIRST AIDERS

Norcrafters who hold American Red Cross First Aid cards have been requested to register with the Northrop Civil Defense office, if they have not already done so.

The request comes from L. J. "Jerry" Baker, coordinator of Civil Defense at Northrop.

"We would appreciate it if Norcrafters qualified in Red Cross First Aid training would contact the C-D office," Jerry said. "The phone extension there is 1972."

Dance

(Continued from page 1)

Joe Cribbs, NRC Special Events Chairman Ash Dunning, and Palladium Manager Sterling Wey.

The broadcast from the Palladium will be aired from 8:30 to 9:00 p.m. The nation-wide hook-up is followed, at 11:00 p.m., by a half-hour broadcast over regional stations.

Credited with having one of the most distinctive and familiar musical styles in the orchestra world today, Benny Strong's scintillating outfit features Milly Coury, Kenny Jackson, and Bernard Press.

The modern dance program will include entertainment features such as comedy ensemble singing and novelty numbers.

Designed exclusively for Norcrafters, the private party is one of the largest projects undertaken by the NRC. A capacity turnout is expected to attend, starting the pre-holiday season in gay and festive manner.

Northrop News

Vol. 12 Northrop Field, Hawthorne, Calif. No. 8

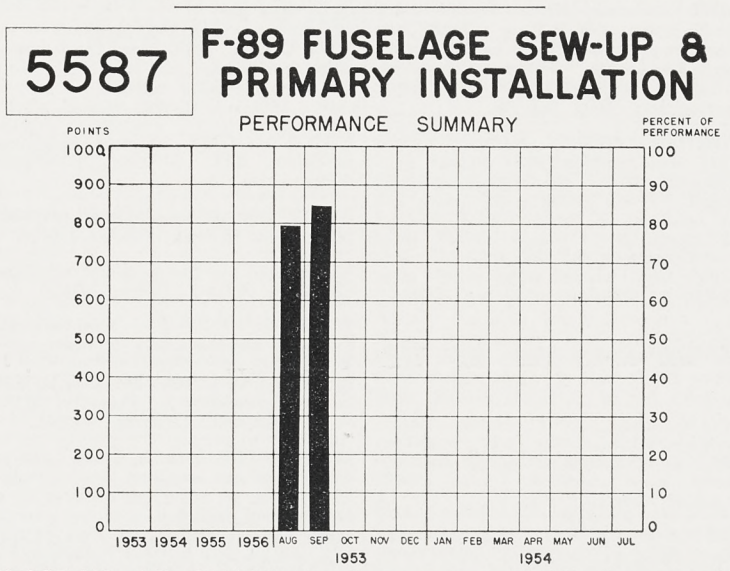
Published every other Wednesday by
INDUSTRIAL RELATIONS DIVISION, NORTHROP AIRCRAFT, INC.
JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

A publication by and for the men and women of Northrop.
Permission to republish material with credit to the Northrop News will be granted
News office phones—2456, 2457, 2732. Outside lines—OR 8-9111, OS 6-1121.

Performance Summary

DEPARTMENT CLERKS now prepare Performance Competition charts that show progress of departments in Manufacturing and Materiel divisions. Shown is Penny Barnum, Department 5587, as she learned to apply to chart figures from performance reports. At her right: Foreman Leo Sachs; at her left, Ron Hall, Manufacturing, who administers competition program. Charts are summaries—



CLOSE-UP OF CHART in Department 5587 shows only the summary, or top half of chart. Bottom half shows individual categories which add up to summary. As clearly shown, this department demonstrated distinct improvement over previous month's figures, result of teamwork among department personnel competing with other departments.

Bill Aldrich Is Named Manager of Anaheim IR

The appointment of W. L. "Bill" Aldrich as manager of Industrial Relations at the Anaheim Division was announced October 13, by R. R. Nolan, division manager.

Roger McGuire, who formerly held the post, has been granted an extended leave of absence because of illness, Nolan reported.

Aldrich has been assistant manager of the department since he joined the Anaheim division in January of this year. Before that, he had been assistant manager of Engineering personnel at the Hawthorne plant.

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SCORPIONS NOW IN ALASKA

STAND 24-HOUR GUARD AT ELMENDORF

Long-range U. S. Air Force Northrop Scorpion F-89 all-weather interceptors are being assigned to the Alaskan Air Command for 24-hour guard duty along top-of-the-world routes to America's heartland.

First twin-jet F-89s are now in use by the 65th Fighter - Interceptor Squadron at Elmendorf Air Force Base, near Anchorage, Alaska, it was disclosed last Friday. Additional Scorpions are being assigned to bolster the nation's Arctic aerial defense network.

The 600-mph, two-man, semi-automatic interceptors will provide day-and-night far-distant protection against atomic or hydrogen bomb attack on key targets in the United States.

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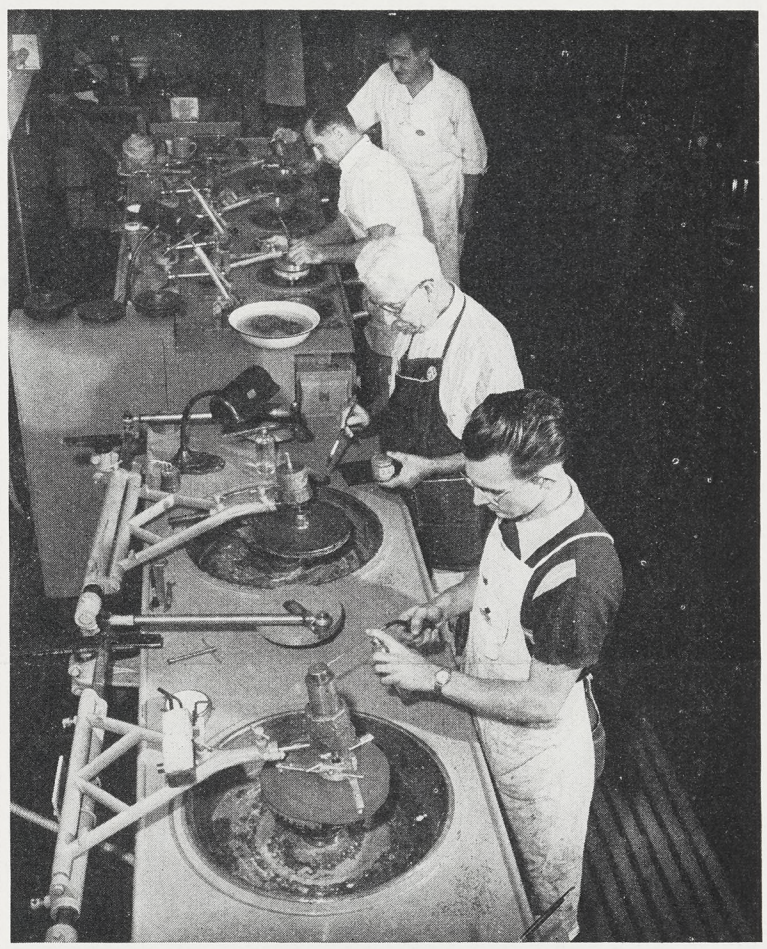

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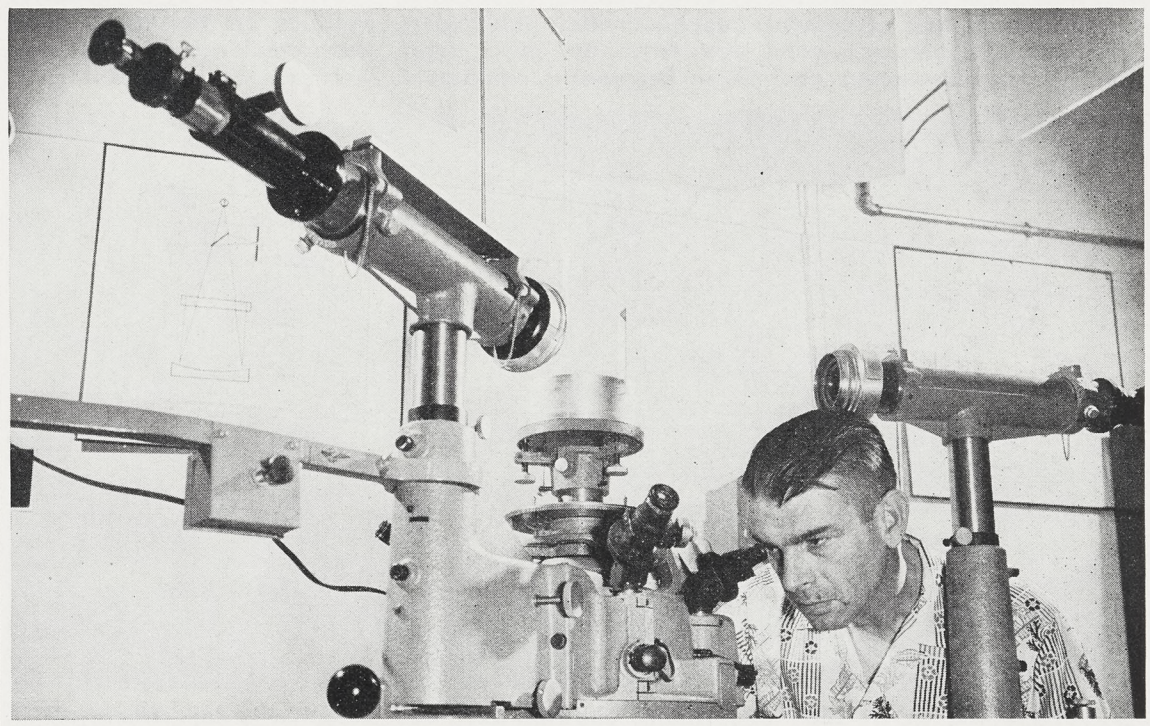

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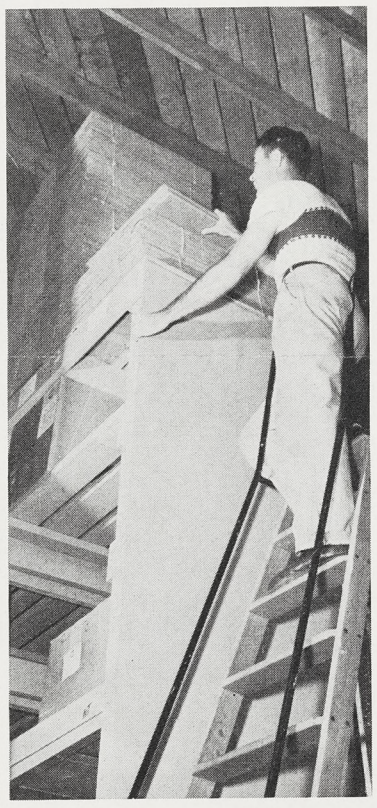
Maple Street Backs Mat Con With Good Housekeeping

MAT CON gets boost at Maple Street from good housekeeping practiced in Purchasing office. Norcrafters responsible for good showing are pictured at their work. Left row, front to rear: Marie Gwin, Ed Rasmussen and John Hinchliffe. Second row: Billie Alcorn, Janet Speth, Florence Lockbram, Rick Williams, and Jim Ooley, with Supervisor Charles Murray standing. Third row: Salesmen A. Hogue and A. Joseph, Al Throckmorton, and Salesman Joe Pimentel. Fourth row: Genevieve Alden, Margaret Christian, Ray Van Orden, Marc Delose, and Roy Patterson. As part of Performance Competition program in effect in Manufacturing and Materiel departments, good housekeeping in indirect departments is being constantly surveyed as one of four factors in Performance Summary.

CONSERVATION PROGRAM at Maple Street includes stationery supplies. Fred Johnson, jr., is shown looking over neat stock of used stationery which can be—and is—issued in lieu of new equipment. Supplies include tab folders, filing boxes, notebook binders, desk trays, and other items, which serve Norcrafters as well as brand-new equipment.



NEW SAFETY LADDER at Maple Street is used by Wayne Clark as he goes for supplies on top shelf. Note neat stacking of cardboard —excellent housekeeping. . .

ANOTHER MAPLE STREET department showing good housekeeping is department 6720, Industrial Supplies and Equipment Inventory Control. In department are Norcrafters shown. Left row, from front: Betty Kuechler, Artie Mitchell, Helen Allen, and Norm Herman. Center foreground: Nat Spangler. Right row: Laurine Price, Marcy Becker (standing), Kitty Frey, Jannie Wheeler, Joe Boylan, and Larry Brown. Coordinator of good housekeeping drive among indirect departments in Materiel and Manufacturing is Cliff Hindle, of Methods Engineering. Good housekeeping is a major tenet of the Mat Con code.

BARTER - - BUY SELL OR FREE

FIRST BBSF ADS MAKE APPEARANCE

FOR SALE

PIANO, large upright, dark wood, $100. BEDROOM suite, blond lime oak, perfect condition, five pieces, original price $400. Will sell for $275. EVELYN MILLER, NEwmark 1-7174. A

SINGER, 1952 4-place, 15,000 miles, runs nice, looks nice, bright red. Make offer. DAN MacMANUS, VE 9-5092. A

AUTOMATIC G380 High Standard. Perfect condition—has been fired only 20 times since purchase from Klein's. W. A. SYMINGTON, LYcoming 2-8258 (Pomona). A

HOUSE—Manhattan Beach—2-bedroom, west of Sepulveda, fireplace, beamed ceilings, patio, weather-stripped, fenced yard. $2000 down. JOHN R. STERLING, FR 4-8608. A

DOG — Boxer, excellent 1½-yr.-old female, Maseline strain, papers, background of champions, $100. A. C. WEISHAAR. Reply to Northrop News, Box 87. A

THREE Bedroom Home—fenced back yard, across street from school, one block from market. Lawn and landscaping. Reasonable. Torrance, corner lot. $1500 dn. EVELYN B. LOCHRIE. Reply to Northrop News, Box 88. A

VENETIAN BLINDS, rustproof white steel—with cornice and display rods attached—good condition—reasonably priced. 1—82" wide x 66" long; 2—24" wide x 42" long; 1—60" wide x 68" long; 2—11" wide x 72" long; 2—36" wide x 88" long; 1—85" wide x 88" long; 2—18" wide x 48" long. HAZEL C. STEWART, ORchard 1-6945. A

HOTPOINT Electric Range, good condition. $50. L. H. CASTLE, OS. 6-6604. A

DIVAN and CHAIR — small, three-cushion—raisin color, good condition. $55. Gray chrome table and four red chairs, good condition. $35. MARY BLAUGH, ORchard 2-3576. A

OLDS 6 (1947), 4-dr., excellent condition. $250 dn., bal. $340, bank terms. KIRK, PL. 5-6610. A

FLYER'S GOGGLES and HELMET. Your price. KIRK, PL. 5-6610. A

BOY'S BICYCLE, full size, $12. KAY TOUGAU, FRontier 2-1005. A

FORD COUPE, '39 custom, chrome interior trim, white plastic upholstery, white wall tires. Motor recently completely overhauled. Good transportation, radio & two spotlites. $175. ARTHUR MERRIFIELD, PLymouth 4-7618. A

EDMUNDS high-compression head for '49-'54 Plymouth. List price $52.50, plus federal & state taxes. $40.00. WALLY HENRICH, FRontier 4-5412. A

WOMAN'S SKI BOOTS, Edwin Clapp—size 5½C. Slightly used, in excellent condition, do not fit owner. $25. R. E. BOWMAN, FR 2-1236. A

CHRYSLER 1949 Windsor, Club Coupe. 41,000 actual miles. Tires almost new, motor in top shape, plastic seat covers. $1400. M. J. BELITZ (Fire Chief), PLymouth 4-6429. A

GOLF CART (Ko-lap-si Kart), cost $37; sell for $25. LARRY LAUER, OR 1-3798. A

HI FREQUENCY ignition coil, Holthouse, cost $33. 2 condensers included. $15. LARRY LAUER, OR 1-3798. A

GLADIRON MANGLE—in excellent condition. $30. NINA SHANNON, OSborne 6-1769. A

TRAILER, two-wheel, all-steel box. Has extra wheel, tire and tube. Also has 1953 California license. $60. GIL J. PENN, OS 6-7657. A

ACCORDIONS. New and used, top quality, priced low. Men's and women's English imported bicycles. Three speed, 26-inch wheel, with accessories. One price, $57.50. LINO RIZZARDI, YUkon 325-585 (Upland). A

HOUSE in the pines, five large rooms, tile kitchen and bath, flagstone fireplace, patio and landscaped yard. $16,000 by owner—after one p.m. 26314 Senator Ave., Harbor City—DAvenport 6-3020. A

ONE TWIN BED—red maple finish—like new. $6. JACK GOULD. Reply to Northrop News, Box 83. A

FOR SALE

DE WALT radial power saw—like new, $185; Camera, Argus C3 with case, less flash, $40; Heath kit Oscilloscope, A-1 condition, $45; VTVM Precision Instrument Co., $25; Signal generator, $20. S. M. SIMPSON, ORchard 2-8076. A

CROSLEY 1947, $100. MG engine and transmission, $150. Must sell. FRED FORSTER. Reply to Northrop News, Box 822.

DODGE 1939 two-door sedan. Very good motor, good tires, new brake reline job. Makes fine transportation car. $75 cash. "PAT" BIBB, OSborne 5-1421.

STUDEBAKER, 1951 V8 Land Cruiser, 4 door, automatic transmission, fully equipped. Or will trade on 1952 Ranchwagon or will accept prewar Ford panel or station wagon. Nice clean car—good tires. $1295. JOE REED, DAvenport 6-5558. A

MOTORCYCLE, 1949 Indian vertical twin, or trade for power tools. $150. ED. J. SANTORO. Reply to Northrop News, Box 84. A

FORD COUPE, 1939, ideal for transportation car or hot rod fan. Will trade for console sewing machine or sell for cash. LESLIE J. LEWIS, MEtcalf 3-5603.

MOTOR SCOOTER, Salsbury, very good condition, $85, GINNY THOMPSON, OSborne 5-1336. A

RANGE, Tappan gas—good condition, $100, F. R. LEVELLE, TOrrey 3-3820. A

BICYCLE, 26" boy's—excellent condition, $20, F. R. LEVELLE, TOrrey 3-3820. A

WASHING MACHINE — semi-automatic Kenmore, approximately 5 years old—in excellent operating condition. Can be seen any time of day, $45, Can be paid in three payments if necessary, BRUCE M. BEAUCHAMP, OSborne 5-2069. A

REFRIGERATOR, 6 cu. ft. Crosley Shelvador in excellent condition, approximately 10 yrs. old, no scratches, all accessories present and included. Can be seen at home address almost any time of day. $75, can be paid in three installments or less, BRUCE M. BEAUCHAMP, OSborne 5-2069. A

BEN HUR home deep freeze, 17.3 Cu. Ft. —chest type. Used one year—is in perfect condition, no scratches or mars. Cost $650, will sell for $300, DAVID MEEKER, OS 6-4820. A

HOUSE, 6 room, 2 bedrooms and den, double garage, floor furnace, fenced yard, 1 blk. north of Slauson, 2 blks. east of Sepulveda, 11349 Stevens, Culver City, $12,750, 4% loan, submit on down payment, JAMES WATSON, PL 4-6527. A

CAPACITORS, 8 Cornell-Dubilier 50 MFD 330 VAC, new, oil filled, $5.50 each, lot $5 each, HOWARD CONVERSE, OR 7-0861. A

FORD, 1952 four door Customline Fordomatic, radio, heater, and extras, dark green. This is a bargain — original throughout, $1675, EDWARD F. RAFTERY, CLeveland 6-1688. A

POLAROID land camera — nearly new, $50, J. G. RAYWORTH, FR 4-8131. A

COFFEE TABLE, 2 blond modern glasstop end tables and 2 Chinese table lamps, $25, J. A. NIEMEYER, FR 2-9058. A

STUDIO COUCH, beautiful Sleepmaster, makes into a double bed, modern design and color, sturdy material, nearly new and in excellent condition, retail price—$135, but will sell at a give-away price, $50, DON M. WEAVER, OS 5-2331. A

SILVER PLATE set consisting of tray, chafing dish, gravy boat, 2 candlesticks, details by phone, T. ANDREEVA, EXbrook 59262, evenings.

REFRIGERATOR, '47 Model-7 Cu. Ft.,—excellent condition, $95, W. J. BRELL, LOgan 9-4964.

ELECTRIC HEATER, Arvin automatic, like new, used only two months, A. C. only. Original price $35, will sell for $25, C. E. LEES, NEwmark 2-6471.

MAYTAG WASHER, automatic, $165 or $50 cash and make 10 bank payments $11.84 month, N. M. SPANGLER, MEnlo 43400

VELVET RUG and pad 9 x 12 — $40, BED DIVAN and Matching Chair, Platform Rocker—$40. JOHN E. BOURKE, OR 2-8468.

(Continued on Page 5)

Free Pups, Kittens Mark BBSF Classified Debut

If the response to the Northrop News' newest feature, "Barter, Buy, Sell or Free", is any criterion, there will be brisk business transactions between Norcrafters, commencing this evening!

The junior Norcrafter seeking a pet will find an answer to his search; the householder trying to find odd pieces for his newly-decorated living room may find exactly what he's looking for; and the man of the house who likes to retire to his workshop in the garage after work may find that extra machine he needs.

They're all there, in the first edition of classified ads today. They are the ads of the seller, the would-be-buyer, the trader, and the giver, all inserted free of charge on BBSF forms supplied by department clerks.

With the initial response so good, it is expected that the next issue will include even a greater number, as Norcrafters become better acquainted with the feature.

The forms are available from department clerks, PA&S offices; plant lobbies; and at the Northrop News Office. The advertiser fills in the information requested, drops the form into a company mail box, addressed to the Northrop News, and sits back to await results.

Preferred form of comunication with the advertiser is by home phone; BBSF attempts to avoid adding to the traffic on company telephone extensions, which are being used for business purposes.

In replying to ads without home telephone numbers, Norcrafters are requested to direct their replies to the box number listed at the end of such ads, c/o the Northrop News Office. The News staff will make a daily transmittal of these replies to the box-holders.

The ads are printed only once—if advertisers wish to repeat them, they are requested to submit new forms for the following issue. Deadline is Wednesday midnight, a week previous to publication.

BARTER – BUY – SELL – FREE

FOR SALE

BARBELL, Dumb-Bell set—$15, .22 RIFLE automatic with scope—$30, D. F. ROBBINS, PL 5-0056.

MOVIE CAMERA, Bell & Howell 16mm, magazine loading, brand new, $180, J. ANGELMAN. Reply to Northrop News, Box 810.

SAILBOAT, 16 ft. snipe, racing sails by Watts, stainless rigging, $395, NORBERT E. BYRNE. Reply to Northrop News, Box 811. A

PLAY PEN—by "Baby-Line", 6 legs with casters. Keeps baby off floor and out of drafts. Clean and well cared for. $17, RALPH E. KNOWLES, FRontier 2-9365. A

METAL LATHE, 6" "Craftsman" with accessories & steel work bench, used 3 times, $50, 2 cyl. gas engine 1½ h.p.—$18, also misc. hand tools, F. O. BROWN. Reply to Northrop News, Box 814. A

PARAKEETS, buy direct and save, choice of colors, including lots of blues, selection from hundreds of birds insures top quality and large size, special price to Norcrafters $5, C. L. GRAHAM. Reply to Northrop News, Box 813. A

TRAILER HITCH, for '50 Nash. Cost $13, used once, asking $7.50, make offer, J. M. HERRINGTON. Reply to Northrop News, Box 816. A

HUTCH, early American maple, by Ethan Allen, red finish, eastern maple, finest construction, 6' X 4-1/4' X 1-2/3', nearly new, cost $289, sacrifice, $125, J. M. HERRINGTON. Reply to Northrop News, Box 815. A

LOT, mountain resort, Frazier Mountain Park, size 50 X 70, well developed, all conveniences, close to clubhouse, all sports, $800. PEARL MULROONEY, OR. 1-9623. A

FOR SALE

PLYMOUTH, 1947 special deluxe 4-door sedan, radio, heater, seat covers, recent engine overhaul, exceptional condition, $550. STANLEY GUEST. Reply to Northrop News, Box 817. A

SLIDE VIEWER, table type Eastman Kodak, 4 X for 35mm slides, like new, cost $49.50, will sell for $30. H. D. HEAVERLO, ORchard 2-6453. A

HOME, Redondo Beach, large, 2 bedrooms, hardwood floors, disposal and many extras, young orchard and fully landscaped, near all schools & shopping, $8950, JOHN F. BAZYK, FRontier 2-7300. A

BICYCLE, girl's, full size, Elgin, good condition, $25. C. D. MYERS, ME. 4-0079. A

DUAL MANIFOLD, polished, Edmunds, with 2-91 carbs attached, complete with gas lines and vacuum line, 2 chrome air filters, $40. WILLIAM WATSON, AD. 1-2763. A

HILLMAN MINX, 1953, maroon, convertible, white walls, $1795. FRANK KLINE, AXminster 3-8963. A

HOUSE, 3 bedroom, fenced in back yard, venetian blinds, double garage, outside newly redecorated, nice location, close to schools, shopping center, and bus line, $12,500, down payment $4,000. DOROTHY SHULL, MEnlo 4-7943.

TRAILER, mono-wheel, 4½ ft. wide X 5½ ft. long X 18 inches deep, all steel chassis, $25, W. A. LUX. Reply to Northrop News, Box 821. A

TABLE SAW, Delta 10-in. tilting, complete with steel stand and ½ H.P. Delta motor, like new, $165. H. D. NUNN. Reply to Northrop News, Box 818. A

"This 3-D is sure realistic!"

FOR SALE

BICYCLES, used and rebuilt, $10, up. J. R. MORLEY, VE. 8-9295. A

CADILLAC convertible, 1947, ensign blue, all factory extras, including white side wall tires, $995. M. L. KELLY, OR. 1-3282. A

WANTED TO BUY

TAPE RECORDER in good condition—must be able to rewind by switch. Must be under $75. RAY BESTE. Reply to Northrop News, Box 81. B

SET OF ENCYCLOPEDIAS. Condition of books makes no difference (preferably Britannica). EVELYN LOCHRIE. Reply to Northrop News, Box 89. B

GIRL'S BICYCLE—must be 20-inch. "KIRK," PL. 5-6610. B

PARAKEETS—will pay top prices. E. B. GUNTHER, ORchard 7-1401. B

PIANO, used spinet or small grand. BETTY B. GUSTAFSON. Reply to Northrop News, Box 82. B

WILLYS station wagon, 4-wheel drive—cash deal. T. A. HARRINGTON. Reply to Northrop News, Box 85. B

PLYMOUTH 1947 or 1948, club coupe—must be in top condition, cash deal. Donna Pratt, OSborne 5-4134.

MOVIE camera and projector 8mm, M. ORTH, FRontier 44016.

MUSICAL INSTRUMENTS of all kinds, J. H. RUSH, OS 6-6449.

PIANO, Spinet, good tone, MILLIE WITTMAN, MEnlo 9-3296.

ACCORDION, 120 bass junior size, must be in good condition, JAMES R. MELTON, OS 6-9518.

BICYCLE, girl's 24-inch, also want record player. F. E. BURFORD, MEnlo 4-5012. B

DRILL MOTOR, used. DICK BARRETT. Reply to Northrop News, Box 819. B

FOR TRADE

STUDEBAKER, 1951 V8 Land Cruiser, 4 door, automatic transmission, fully equipped. Or will trade on 1952 Ranchwagon or will accept prewar Ford panel or station wagon. Nice clean car—good tires. $1295. JOE REED, DAvenport 6-5558. C

WILL TAKE cheap car and some cash for my equity in 1947 Olds (6) 4 dr. "KIRK," PL 5-6610. C

PISTOL—32 Colt automatic. Want to trade for 38 revolver. Prefer short barrel. P. W. PARKER, SUnset 1-5787. C

SHOTGUN, 12 ga. double-barrel, and plywood skiff. Trade for T.V. set, 16" or larger. R. BRUMPTON, OSborne 6-5253. C

PACKARD 1941—will trade for outboard motor, boat, or motorcycle or side-arm. (I work 2nd shift; call any morning). C. D. WILLIAMSON, AD 4-8197. C

COLT, police special, 22 cal. heavy barrel target pistol—like new, for 30-30 deer rifle or drill press. H. C. DICK, OR. 7-4265. C

MOTORCYCLE, 1949 Indian vertical twin, or trade for power tools. $150. ED. J. SANTORO. Reply to Northrop News, Box 84. C

ROOM for middle aged lady, in exchange for child care (at night), for two well mannered boys, four and eight years of age. RICHARD W. PARKER. Reply to Northrop News, Box 86. C

FORD COUPE, 1939, ideal for transportation car or hot rod fan. Will trade for console sewing machine or sell for cash. LESLIE J. LEWIS, MEtcalf 3-5603.

Will trade Chinchillas for equity in late model 1952-1953 car, T. BRAZIL, TW 9961.

WILL take 35 MM camera in trade for 4" x 5" Burk and James camera (including flash attachment), enlarger, photo lights, etc., BOB YOUNG, NEwmark 2-4565.

RENTALS WANTED

APARTMENT, 2 or 3 room furnished or part furnished. B. J. TAYLOR, PL-63386.

ONE BEDROOM apartment for elderly lady. Must be on first floor and have stove and refrigerator furnished. Up to $42.50 per month. Prefer Inglewood, Westchester or beach cities. RON HALL, OR 2-5426. F

TWO BEDROOM unfurnished house; apartment etc., for two adults and one yr.-old child. Can pay up to $70. per month. NANCY RODRIGUEZ, PLymouth 6-5812. F

FURNISHED APT., duplex or house—1 bedroom. Will pay between $55-65 per month. Prefer southwest area. KATHLEEN EMGE, ME 9-2519. F

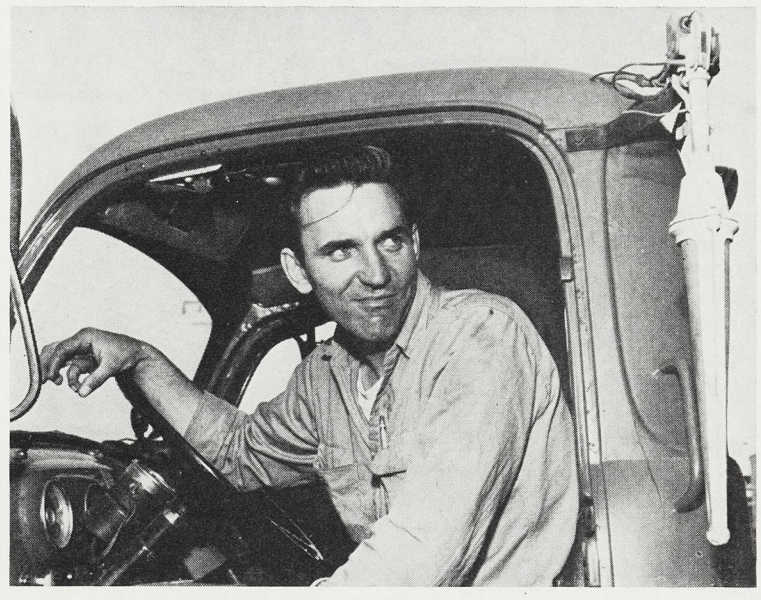
APT., 1 bedroom furnished, garage, employed couple, no children or pets. Between Florence, Century, Western and Crenshaw, $75, DOROTHY MINNICH. Reply to Northrop News, Box 812.

HOUSE, 3 room unfurnished, near Imperial between Prairie and Vermont. Must be clean, $50, but not more than $55, MRS. JEANNIE BARNETT, PLymouth 4-3880.

HOUSE, 2 bedroom, unfurnished, have 2 small children, prefer Compton-Huntington Park area, to $70. ALVERTA BRENNAN, NEwmark 2-1168. F

HOUSE, unfurnished, one or two bedroom, with stove and refrigerator. Must take small dog. Work at Lynwood warehouse. Up to $65 per month. NANCY B. TOPP. Reply to Northrop News, Box 820.

Norcrafter Marve Forbes In Hero's Role at Fire



MARVE FORBES—saves six

Norcrafter Marvin Forbes, truck-driver in Transportation, says, "I didn't do anything that anyone else wouldn't do; I just happened to be around!"

But thousands of good citizens will disagree with the contention. (and several people have, via anonymous telegrams of praise.) Norcrafter Forbes is the man who saved the lives of six Alondra Park children in a fire last month.

Hailed widely in the metropolitan newspapers and on TV as the hero of the episode in which he caught the children—four of them were dropped to him from the second story—Forbes seems slightly embarrassed at the attention his action aroused, and is almost reluctant to discuss the episode.

But the bare facts back up the press and TV acclaim:

He had just returned to his home in the veterans' housing community—north of the Alondra Park golf course—when he spotted the fire on a neighboring roof, and heard a man yelling wildly.

The neighbor, Tom Villareal, was trapped in his second floor apartment with his four children and wife.

Marvin ran over to help.

Villareal dropped the two smaller children — Tommy, 19 months, and John, 4 months—to Forbes. The rest of the family scrambled to the roof, about 20 feet from the ground.

Marvin then grabbed a ladder, set it against the flaming building, and climbed to get the other two children.

Back on the ground again, he ran inside the first floor of the apartment, broke open a bedroom door, and there discovered a family of four asleep.

While he was preparing to carry the two children out of the room, the father awoke. ("His name was Coleman, or Smith—I am not sure which," Marvin says now.)

Half asleep, he could see only that someone was making off with his children, so he swung at Forbes! All, however, left in haste when the situation dawned upon the occupants.

Forbes had moved into the district only two days before the fire, and the Villareals only two or three weeks earlier. The latter family lost all its belongings in the blaze, which was of undetermined origin, according to L.A. County Assistant Fire Chief Ralph A. Williams.

George Putnam, noted TV news commentator, invited the heroic Norcrafter to participate in his program on Sunday, and made a plea to the TV audience for assistance in getting the Villareals back on their feet.

Within two minutes after Marv had finished telling about the fire, the phone in the studio was ringing, with people pledging various sums toward the rehabilitation of the unfortunate family.

Forbes has three children of his own, two girls—Barbara, 12, and Diane, 11 — and a boy, Rickey, age 9. He moved to California early this year from Minnesota, and worked at one of the neighboring aircraft companies previous to beginning at Northrop. His wife, Madelyne, is employed at Hughes.

A six-footer, who packs 185 pounds on his frame, Forbes drives the "shuttle-run" — the truck pickup and delivery from Plant Two to the warehouses at Lynwood and Maple Street.

But at mention of his valuable "catch", he repeats his declaration that he "really didn't do anything out of the ordinary."

"Anybody else would have done the same thing!" he shrugs.

RENTALS OFFERED

ONE ROOM in nice home close to Northrop. Male or female—any shift. $10 a week (arrangements for kitchen privileges can be made). BETTY JANE McNABB, PLymouth 4-3698. E

APT., furnished single, very nice, utilities paid, one man $55, near Centinella and LaBrea, also near Centinella and Fairview, A. W. FEDER, OR 1-0185.

SHARE my home with lady—day worker only. Call after 4:30 p.m., ELSIE M. HICKS, MEnlo 4-4766.

APT. — 2 bedroom, unfurnished, ocean view, disposal, patio yard, garage, drapes available, will redecorate, child O.K., $90, B. GAIENNIE, FRontier 4-7426.

PERSONALS

COLOR FILM—I will process your Ansco color film to size 4x5, HOWARD CONVERSE, OR 7-0861.

CHILD CARE OFFERED

CHILD CARE, fenced yard, outdoor gym set and other toys, ages 1-5 yrs., excellent care, $2.50 per day — hot lunch and snacks, $3. Night Shift, W SHAKESPEARE, TE. 5-1191. G

CHILD CARE WANTED

ROOM for middle aged lady, in exchange for child care (at night), for two well mannered boys, four and eight years of age. RICHARD W. PARKER. Reply to Northrop News, Box 86. H

FREE

PUPS — male — three, black with white chests—part cocker spaniel. NINA SHANNON, OSborne 5-3153. D

KITTEN, black and white, 1 month old, T. ANDREEVA, EXbrook 59262, evenings.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office. (Department 4280, Mail Zone 20).

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
WESTERN & SANTA MONICA BLVD. (Travel Western & Van Ness or Crenshaw Blvd.), Hollywood. W. J. FORBELL (5234-17, Ext. 1809), HO. 5-9121. (1-1-1)

ADAMS & HOOVER. (All the way down Hoover or Vermont or will vary route slightly), Los Angeles. TED E. ABEYTA (5437-28, Ext. 2224), RI. 5877. (12-1-1)

WASHINGTON & VERMONT, Los Angeles. W. A. HUTT (5503-212, Ext. 2416), RE. 3168. (12-1-1)

TEMPLE & BOYLSTON. (Nearest intersection Boylston and Bixel on Temple St.), Los Angeles. F. C. MISO (5587-399, Ext. 1947), MU. 7705. (12-1-1)

(Zone 2)
MANCHESTER & NORMANDIE. (Route: Century to Crenshaw to 120th, Prairie to Plant 1), Los Angeles. DONALD WITTMAN (5503-365, Ext. 2681), TW. 0482. (12-1-2)

(Zone 4)
DOWNEY AVE. & IMPERIAL. (Come down El Segundo or Imperial), Paramount. M. MASSEY (5620-24, Ext. 2233), ME. 3-1976. (12-1-4)

(Zone 10)
BLOSSOM LANE, No. Redondo. SHERRY MAZZUCCHI (5503-128, Ext. 2431). (12-1-10)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
WESTERN & SANTA MONICA BLVD. (Travel Western & Van Ness or Crenshaw Blvd.), Hollywood. W. J. FORBELL (5234-17, Ext. 1809), HO. 5-9121. (1-3-1)

WESTERN & 51ST. (Western to 54th to Manhattan to Slauson to Van Ness to Century to Prairie by Plant 1), Los Angeles. PATRICIA MILLER (5224-60, Ext. 2791), AX. 2-5907. (12-3-1)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 2)
FOOTHILL BLVD. & RAMSDELL AVE. (Can pick up passengers in La Crescenta, Verdugo City, Montrose, Glendale, Hyperion Ave., Santa Monica Blvd. or Western Ave. Car pool O.K. New Dodge sedan), La Crescenta. M. L. DUNBAR (5700-12, Ext. 2053), CH. 9-6305.

(Zone 5)
CARSON & WOODRUFF — LAKEWOOD. (Can pick up anywhere between Del Amo and Rosecrans — Lakewood Blvd. and Crenshaw), Long Beach. GEORGE BROWN (9310-101, Ext. 2280). (13-1-5)

(Zone 12)
LIVORNO & SUNSET BLVD. (Via 7th & San Vicente & through Playa Del Rey), Pacific Palisades. JOAN CLARK (5150-24, Ext. 2325). (13-1-12)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
BUNDY & WILSHIRE OR NATIONAL & SAWTELLE. (Existing pool desires more drivers or riders), Los Angeles. HALL EVANS (3530-65, Ext. 463), AR. 7-0036.

SANTA BARBARA & WESTERN OR SANTA BARBARA & DENKER, Los Angeles. MARTHA HAWKSHAW (3144-859, Ext. 1848 or 1849), AX. 2-9074. (13-3-1)

(Zone 2)
FOOTHILL BLVD. & RAMSDELL AVE. (Can pick up passengers in La Crescenta, Verdugo City, Montrose, Glendale, Hyperion Ave., Santa Monica Blvd. or Western Ave. Car pool O.K. New Dodge sedan), La Crescenta. M. L. DUNBAR (5700-12, Ext. 2053), CH. 9-6305.

(Zone 10)
MANHATTAN AVE. & PIER AVE., Hermosa Beach. RALPH G. GAUT (3270-824, Ext. 1274), FR. 2-9880. (13-3-10)

(Zone 12)
VENTURA & TOPANGA BLVD. (Room for one, via Ventura to Northrop), Woodland Hills. J. M. HERRINGTON (6620-2, Ext. 1519 or 2126). (13-20-12)

7:30 a.m. — 5:15 p.m.
(Plants 1 and 2)

(Zone 3)
BROADWAY & 109TH. (Would also like to make contact with someone going by this address in case I needed a ride some morning), Los Angeles. WAYNE T. LAWSON (3230-50, Ext. 1570 or 1886). (14-1-3)

RIDES OFFERED

7:30 a.m. — 5:15 p.m.
(Plants 1 and 2)

(Zone 4)
PARAMOUNT & IMPERIAL HI-WAY, Downey. L. SEEFELD (3257, 3430-111, Ext. 2357), TO. 9-7564. (14-1-4)

3:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 3)
MANCHESTER & SAN PEDRO, Los Angeles. R. E. DAVIS (5524-463, Ext. 2209), PL. 2-2498. (17-1-3)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 3)
SOUTH SAN PEDRO & EAST MANCHESTER. (One to three passengers), Los Angeles. J. L. WILSON, JR. (5587-50, Ext. 1947), PL. 1-9225. (18-1-3)

FLORENCE & CENTRAL. (Want Riders, men or women), Los Angeles. BENNIE COLBERT (5534-256, Ext. 2244), LO. 8-7274. (18-1-3)

(Zone 9)
REDONDO BEACH BLVD. & PRAIRIE AVE., Lawndale. FRANK E. LATHROPE (5524-447, Ext. 2207). Hours 4:45 p.m. to 1:15 a.m. (18-1-9)

(Zone 10)
REDONDO BEACH. (South to 184th, thru Hawthorne, Lawndale and North Redondo. Want three riders), Redondo. G. W. KROMER (5587-280, Ext. 1947). (18-1-10)

Rides Wanted

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
CRENSHAW & 92ND, Inglewood. VIOLET B. VERDEA (5507-94, Ext. 526). (2-1-1)

NORMANDIE & ADAMS OR JEFFERSON & NORMANDIE. (Would like to acquire ride as close to home as possible but will accept any ride within reasonable distance), Los Angeles. LEROY ROBERTS (5586-113, Ext. 2405), RE. 9506. (2-1-1)

(Zone 2)
VERMONT & 79TH, Los Angeles. WILLIAM BAUMGART (5534-65, Ext. 2244). (2-1-2)

MANCHESTER & FIGUEROA. (Will pay a reasonable fee for ride to and from work), Los Angeles. HARRY H. ROBBINS (5165-95, Ext. 549), PL. 6-7414. (2-1-2)

(Zone 5)
BULLIS ROAD & ORCHARD, Compton. STELLA ADKISON (5507-102, Ext. 526), NE. 2-6554. (2-1-5)

COMPTON & GARFIELD. (Will go any place in Paramount and Compton area and at any time to suit you), Paramount. CLIFFORD A. SODEN (5587-88, Ext. 1973), ME. 3-7258. (2-1-5)

COMPTON BLVD. & AVALON BLVD., Compton. CARL SANDRIDGE, JR. (5524-80, Ext. 2209). (2-1-5)

(Zone 9)
MOBILGAS STATION BETWEEN CRENSHAW & PRAIRIE ON 190TH, Torrance. G. H. SUTLIFF (7230-14, Ext. 2210), ME. 4-7970. (2-1-9)

CALLEMAYOR & HIGHWAY 101. (Walteria Area — Victoria Terrace), Torrance. RENE L. GARRY (5584-132, Ext. 1382). (2-1-9)

(Zone 10)
OCEAN GATE AVE. & 131ST, Hawthorne. J. DYAR (5231-63, Ext. 1822). (2-1-10)

HERMOSA AVE. & 4TH, Hermosa Beach. LIONEL TENINI (7510-52, Ext. 2408), FR. 2-4945. (2-1-10)

SEPULVEDA & MANHATTAN BLVD., Manhattan Beach. ANDREW J. GIBA (5163-69, Ext. 2071). (2-1-10)

PACIFIC COAST HWY. & FIRST STREET, Hermosa Beach. MARJORIE A. WILDERMUTH (5507-53, Ext. 526). (2-1-10)

COMPTON BLVD. & INGLEWOOD AVE., Lawndale. LAWRENCE D. PORTER (5508-161, Ext. 2230). (2-1-10)

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 13)
LA BREA & HAZEL, Inglewood. LUCILLE G. MARSHALL (5507-54, Ext. 526). (2-1-13)

(Zone 14)
8TH AVE. & 63RD. (Need ride immediately), Los Angeles. S. M. TAYLOR (5162-360, Ext. 548), PL. 1-0252. (2-1-14)

LA-CIENEGA & OLYMPIC, Los Angeles. JOHN LOHMEYER (5544-90, Ext. 2645), CR. 4-2978. (2-1-14)

ORANGE & HOLLYWOOD BLVD. (I live right behind Graumans Chinese Theatre. I will pay for the ride on weekly basis), Hollywood. ELLSWORTH LITTLELIGHT (5518-21, Ext. 2792). (2-1-14)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
WOODRUFF & ROSECRANS, Bellflower. JOSEPH S. FOTIA (5518-24, Ext. 2792), TO. 6-5383. (2-3-5)

(Zone 10)
OCEAN GATE OR ANZA & 136TH, Hawthorne. AL SIDDONS (5338-26, Ext. 2138), OS. 6-4021. (2-3-10)

(Zone 12)
PICO AT 4TH ST. (Prefer ride, but would join car pool. I have '52 Ford), Santa Monica. H. J. KEITH (5509-52, Ext. 2075), EX. 9-3312. (2-3-12)

(Zone 13)
LA BREA & REGENT, Inglewood. M. H. GARRETT (5518-90, Ext. 2792). (2-3-13)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 2)
23RD & FIGUEROA OR FLOWER, Los Angeles. KARL HUNRATH (3230-147, Ext. 2541 or 2542), PR. 1766. (3-1-2)

HOOVER & W. 60TH ST., Los Angeles. ARLENE RAINA (5100-26, Ext. 469). (3-1-2)

(Zone 3)
LAS TUNAS & TEMPLE CITY, Temple City. LA VERNE KLOBUCAR (9320-89, Ext. 2151). (3-1-3)

(Zone 4)
IMPERIAL & FIGUEROA, Los Angeles. CECILIA M. SULLIVAN (7010-17, Ext. 1911), PL. 6-4458. (3-1-4)

IMPERIAL HWY. & FIGUEROA, Los Angeles. EVELYN GROSICH (8320-814, Ext. 2011-61). (3-1-4)

(Zone 7)
WESTERN & DENKER AVE., Gardena. VIRGINIA M. PATINO (1441-70, Ext. 691), ME. 4-4200. (3-1-7)

(Zone 9)
HAWTHORNE BLVD. & 161ST. (Ride wanted home from work only), Lawndale. AUDREY HANSTAD (9310-78, Ext. 692). (3-1-9)

(Zone 10)
PIER AVE. & MANHATTAN AVE., Hermosa. MARGE BARKER (5230-11, Ext. 793). (3-1-10)

AVIATION & COMPTON-MARINE BLVD. (Liberty Village), Manhattan Beach. MINNIE C. LAUER (9500-17, Ext. 2254). (3-1-10)

(Zone 12)
MANCHESTER & SEPULVEDA OR SEPULVEDA & 83RD, Los Angeles. CATHERINE E. REESE (7000-41, Ext. 530), OR. 1-5274. (3-1-12)

(Zone 13)
CENTINELA & LA BREA, Inglewood. DOREEN FEDER (1441-58, Ext. 591), OR. 1-0185. (3-1-13)

(Zone 14)
CENTURY & DOTY, Inglewood. CAROL WATSON (5003-15, Ext. 2455). (3-1-14)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
WESTERN & 15TH, Los Angeles. RAY DRUMMOND (8620-64, Ext. 2011), RE. 2-0429. (3-3-1)

(Zone 2)
FIGUEROA & 74TH, Los Angeles. JACK ROPER (3140-33, Ext. 2022), PL. 3-7431. (3-3-2)

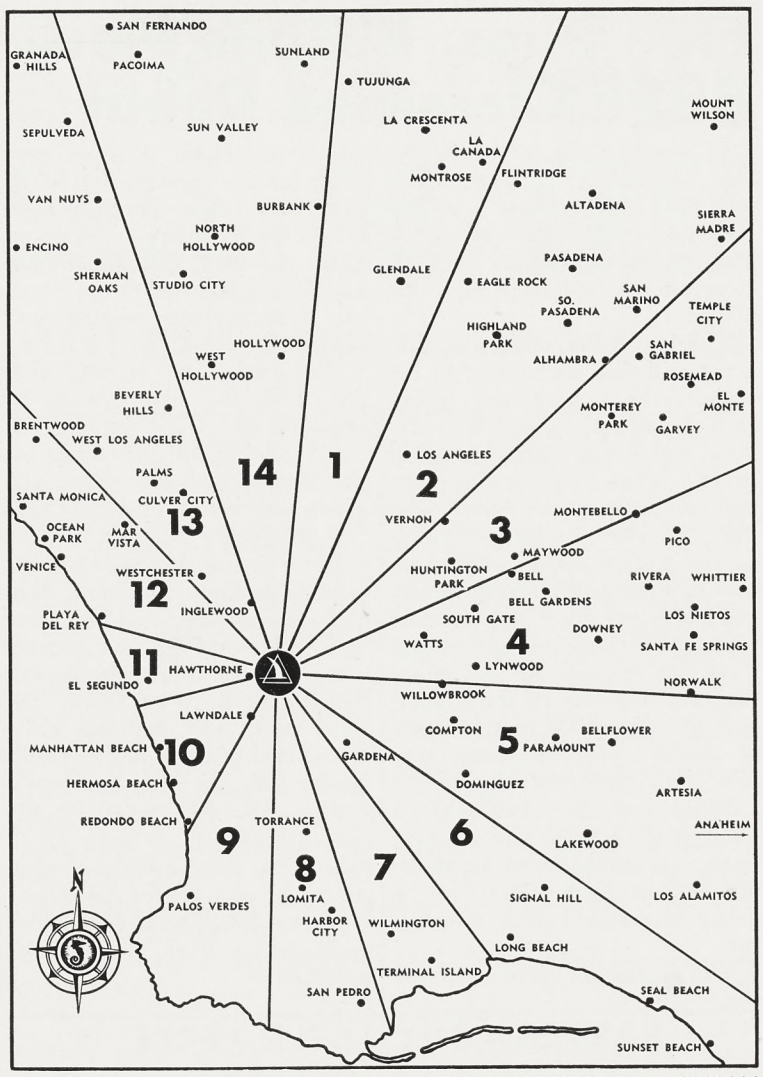
FIGUEROA & 7TH, Los Angeles. HAZEL BOYD (3000-817, Ext. 1227), MA. 0337. (3-3-2)

(Zone 10)
MANHATTAN AVE. & LONGFELLOW. (Six blocks or so from main intersection would be OK if necessary), Hermosa Beach. KENNETH D. RUSSELL (6100-44, Ext. 1298), FR. 4-5485. (3-3-10)

(Zone 14)
WEST BLVD. & SLAUSON AVE., Los Angeles. TERRY KNOTT (8340-814, Ext. 2011-13), AX. 2-5694. (3-3-14)

VERNON & 8TH AVE., Los Angeles. LEON MILLER (3510-122, Ext. 2767), AX. 2-9342. (3-3-14)

PRAIRIE & MANCHESTER, Inglewood. MARJORIE OTT (3140-67, Ext. 2022). OR. 2-4359. (3-3-14)



RIDES WANTED

8:00 a.m. — 4:45 p.m.
(Plants 1 and 2)

(Zone 10)
INGLEWOOD AVE. & 142ND ST. (Will ride with 7:30 A.M. shift in morning), Hawthorne. JOAN M. WARD (4270-20, Ext. 637), OS. 5-2824. (5-1-10)

(Zone 14)
ARBOR VITAE & OAK. (I will come with someone reporting for work at 8:00, and then take bus home in the evening), Inglewood. JEAN CARSON (1441-73, Ext. 691), OR. 2-4627. (5-1-14)

3:45 p.m. — 12:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 2)
HOOVER & W. 60TH ST. (Would accept car pool arrangement, but would prefer to ride), Los Angeles. DONALD RAINA (5506-468, Ext. 533). (6-3-2)

(Zone 13)
SEPULVEDA & CENTINELA OR SEPULVEDA & SAWTELLE, Culver City. GINGER ARKILL (5538-225, Ext. 525 or 2185), EX. 8-4007. (6-3-13)

3:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 3)
JUNIPER ST. & 95TH, Los Angeles. WALTER CURRY (5524-277, Ext. 2209), LO. 9-8792. (7-1-3)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 2)
VERNON & HOOVER, Los Angeles. C. L. BROWN (5586-289, Ext. 1973), AD. 3-2902. (8-1-2)

GRIFFITH AVE. & 18TH ST. (I would like to ride or have some riders), Los Angeles. ALFONSO COLEMAN (5587-690, Ext. 1973), RI. 4049. (8-1-2)

(Zone 4)
CENTRAL & MANCHESTER OR FIRESTONE & ALAMEDA ST., Los Angeles. FOLA NELSON (5507-236, Ext. 526), KI. 9430. (8-1-4)

(Zone 6)
ALAMEDA & CARSON, Long Beach. EARL ALDERMAN (5501-245), TE. 4-8779. (8-1-6)

RIDES WANTED

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 6)
ROSECRANS & WESTERN. (I have to walk three miles every day. If anyone would be kind enough to give me a ride I would appreciate it), Gardena. REYNARD R. GIOVINAZZO (5508-429, Ext. 2230). (8-1-6)

(Zone 8)
CRENSHAW & ROSECRANS, Hawthorne. KATHLEEN LAM (6269-242, Ext. 1681 or 1682), OS. 6-1356. (8-1-8)

(Zone 10)
INGLEWOOD AVE. & 190TH ST., Redondo Beach. L. F. WHEELER (5508-467, Ext. 2230), FR. 9-2840. (8-1-10)

LUCKY MARKET, REDONDO BLVD. (Prefer car pool), Redondo Beach. JOSEPH J. SHETULSKI (5501-657, Ext. 2200). (8-1-10)

(Zone 13)
CENTINELA & LA BREA. (Would be willing to ride with anyone that comes within eight or nine blocks of home address), Inglewood. BOB WEIGLEIN (5584-441, Ext. 1382). (8-1-13)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 1)
VENICE & HOOVER OR ALVARADO & PICO. (Hours—4:15 p.m. to 12:45 a.m.), Los Angeles. ANIS B. SCHOFIELD (5930-238, Ext. 2498), DU. 8-8950. (10-1-1)

(Zone 4)
IMPERIAL HWY. & AVALON. (Hours 4:15 to 12:45), Los Angeles. BETTY J. DRENNON (9330-242, Ext. 1471), PL. 5-3351. (10-1-4)

(Zone 10)
101 HIGHWAY & AVENUE E, Redondo Beach. (Hours 4:15 p.m. to 1:00 a.m.), DELORES L. SHEA (6150-215, Ext. 2051), FR. 5-2807. (8-1-10)

Lynwood

(Zone 6)
VERMONT & 170TH. (I would be willing to pay well for a ride), Gardena. EDNA JACKSON (6269-262, Ext. 125 or 126). (10-Lynwood-6)

NRC BALLROOM DANCE INSTRUCTION SERIES BEGINS ON NOVEMBER 14

It will be the chance of the autumn for ballroom, or would-be ballroom dancers, to improve their style when the special five-session series of progressive dancing lessons gets under way in the NRC Clubhouse next November 14.

With Bill Williams offering professional instruction in various categories to Norcrafters and friends over five weekends, the series of Saturday evening instruction will finish with a special dance and contest to be held February 20. Prizes to be awarded will include trophies for winners, a $25 bond for best all-around couple, and merchandise certificates for runners-up.

Interested Norcrafters should contact PA&S. Price for the five lessons will be $2.50, with instruction scheduled for November 14 and 28, December 19, January 16 and February 6. All shifts are welcome.

SPORTS

The Northrop News

(TO BE GIVEN TO SUBSCRIBER)

THIS CERTIFIES THAT

_____

IS A CONTRIBUTOR TO THE COMMUNITY CHEST OF LOS ANGELES AREA.

THE TOTAL AMOUNT OF THIS CONTRIBUTION IS LEGALLY DEDUCTIBLE FOR STATE AND FEDERAL INCOME TAX PURPOSES.

_____ _____

SOLICITOR DATE

THIS CERTIFIES THAT

_____

IS A MEMBER OF THE AMERICAN NATIONAL RED CROSS.

THE TOTAL AMOUNT OF THIS CONTRIBUTION IS LEGALLY DEDUCTIBLE FOR STATE AND FEDERAL INCOME TAX PURPOSES.

_____ _____

SOLICITOR DATE

terence Km. 5. 12:15 Plant Three.

BOAT CLUB
Harold Senter, commissioner
Beachcombers Steak Fry, Sat., November 28, 7:30 p.m., NRC Clubhouse annex. (See story, this page.)

BOWLING (days)
Chuck Carson, commissioner
Tournament planned for Christmas Holidays Season. Entry forms and rules available at PA&S.

BOWLING (nights)
Tony Cardoza, commissioner
Holidays tournament. Call PA&S for details.

CAMERA CLUB (days)
Walt Darby, commissioner
Next meeting, Friday, Nov. 6, 8:00 p.m. NRC Clubhouse annex. Combined show.

CAMERA CLUB (nights)
Adam Slusarz, act. comm.
Next meeting, Sat., Nov. 7, 8:00 p.m., NRC Clubhouse annex. Print competition Black, White & Color. Election of officers. All members urged to attend.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (DAYS)
Jim Milne, commissioner
Scheduled monthly meets as posted on Bulletin Boards.

GOLF CLUB (nights)
Bill Levens, commissioner

GUN CLUB
Dick Wood, acting commissioner
Meet every other Tues., 7:30 p.m., NRC Clubhouse. Next meeting Nov. 10.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m., 1016 No. Market St., Inglewood. Sunday, 9:00 a.m. to 12:00 noon.

PHILATELIC CLUB
George Borton, commissioner
Philatelic & Numismatic combined club meets 2nd & 4th Mondays each month, NRC Clubhouse, 7:30 p.m. Next meeting Nov. 9.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun. Nov. 8, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, Nov. 5.

SEA SCOUTS
Frank Ziegler, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Nov. 14. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Nov. 27, NRC Clubhouse Board Room.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse.

SQUARE DANCING
Dave Dyer, commissioner
Meet every Sunday eve., 7:00 to 10:00 p.m., NRC Clubhouse annex.

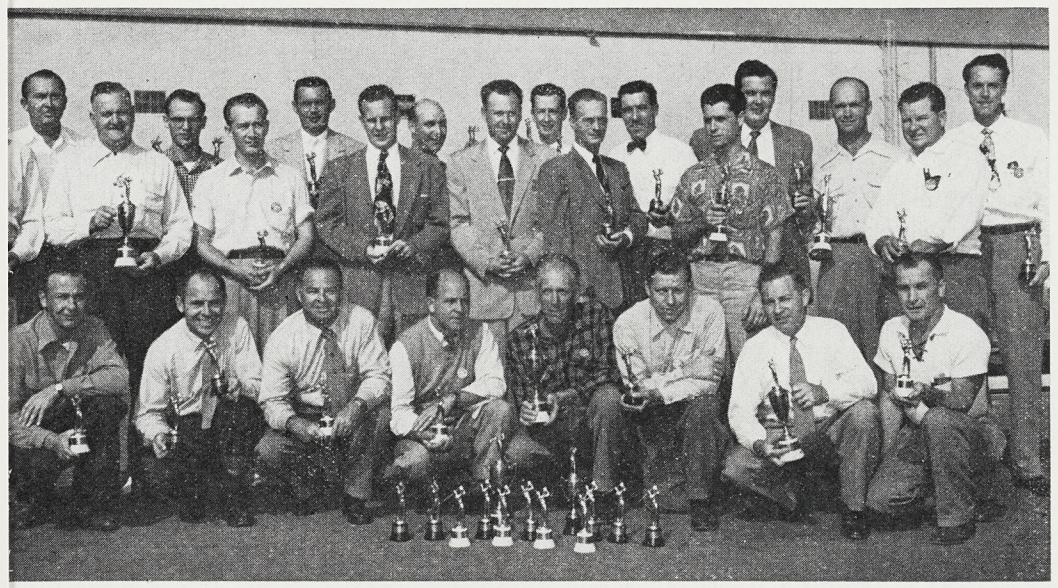
SURF FISHING
Ted Griswold, acting commissioner
Meet 1st Tuesday each month, NRC Clubhouse, 7:30 p.m. Next meeting Dec. 1, is Beginners Night.

TOASTMASTERS (DAYS)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS (NIGHTS)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon. Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Orval Coley, commissioner
Next meeting Wednesday, Nov. 25, 7:30 p.m., NRC Clubhouse.

...ophies Awarded in NRC Open



...ROPHY WINNERS in the recent Northrop open were, from left, kneeling: D. A. Gouze, Don Clarke, Bill Moore, Claude Snapp, T. K. Owens (plant champ), A. E. Titus, E. E. Ashby and Arthur Luedke. Second row: F. S. Gardner, Robert Coughtry, Clyde Blackwell, John Wilhelm, L. A. Maxey, Marvin Pedersen, Leonard Klauer, Roy Burita, Paul Schlue, Wayne Curie, M. T. Goodwin, Warren Chanter, Wayne Hall, Phil Smalley, F. J. McLarney, Glenn Woolpert and Dick Booth. Winners receiving trophies, but unavailable for photograph, were: Mac Kostenbader, C. Potts, Dick Carmichael, Bill Brown Ed Powell, Joe Byrne, Russ Pease, Tom Williams, Clyde Myers, H. W. Landeen, Neil Burgess, Harold Capper, Jim Hing and "Doc" Dockstader. Open is top NRC golf event.

On the Clubhouse Beach For Boat Club Shindig - !

Saronged beachcombers, pirates, ship-wrecked and other similarly costumed Norcrafters of the NRC Boat Club, will meet for the Annual Beachcombers' Dinner Dance on Saturday night, November 28, in the Clubhouse Annex, it has been announced by Harold Senter, NRC Boat Club Commissioner.

Dinner will be served from 7:30 to 9:00 p.m. at which time dancing gets under way.

Must be in costume! Anyone who isn't may end up in the drink, threatens Harold.

A prime rib dinner promises to bolster the sea-going spirits of Norcrafters, with music by Johnny Herrick caulking up where the dance-floor is concerned.

Boatswains of the ticket committee to be contacted for reservations not later than Monday, November 23, are Elmer Chiodo, Plant One; Dorothy Satchell, Plant Two; Harold Senter and Frieda Wasiele of Plant Three; or Personnel Activities and Services Offices. Tickets are $2 each.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 637. NRC Clubhouse is located at 175 N. Hawthorne Boulevard

BASKETBALL
Teams now forming. Interested ladies contact PA&S.

BOWLING
Florence Rice, commissioner
Ladies Handicap League in progress at Torrance Bowl, Tues. 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Interested ladies please contact PA&S.

FLOWER CLUB
Mary Nelson, acting commissioner
Meet first and third Tues. of each month. NRC Clubhouse, 7:30 p.m. New members welcome.

GOLF CLUB
New series of golf lessons now available Culver City Course. Tues, 7 p.m. For more information, call PA&S, 637.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse. Upholstery instruction provided.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP MARINERS
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne. Dance planned for November 7. For details call PA & S, 637.

SLIM 'N TRIM
Meet every Monday, 7:30 p.m., NRC Clubhouse.

TOASTMISTRESS
Marie L. Sauer, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

Sports Cars To Compete -- Plan Rally

Following the recent first-place gymkhana take by NRC Sport Car Clubster Jack Ward, of Tool Engineering and Planning, the club is planning its next rally for Saturday night, November 21, as announced by Bruce Vernier, commissioner.

Special event of the eve will be a time versus average speed run, with six check points. Members will gather at 6:00 p.m. at the Plant Three parking lot, then will move over the course from there to Lomita.

A total of 37 entries were on hand for the October 25 invitational gymkhana, with several of the drivers representing the Hughes and North American Sports Car Clubs, respectively. With Norcrafters' reputation well protected by Jack Ward's winning in the first category, guests from Hughes also had an enjoyable day by copping second and third places. Each of the winning cars was an MGTD.

Besides the usual tests over a serpentine course — precision parking, acceleration and braking events — a blindfold course was prepared as a special test of marital relationships. Wives were navigators.

Black Bat Award To Missileers

NRC's famous annual Black Bat Tournament, winding up the softball season in grand style, has terminated with the Has Beens of Engineering Labs in top spot, and the Black Batters of Missile Guidance "winning"— by being eliminated first — the large Black Bat.

The Has Beens finished without a loss. Facing Jerry Simonek's Missile Sub-Assembly and Major Structure team in the finals, the Has Beens won themselves a comeback they didn't need by fighting their way through to a 1 to 0 victory.

It was Has Been pitcher Ted Carroll who bested Tommy White in the pitching duel. Carroll yielded two hits to White's four. The Has Beens scored in the last of the sixth on Clayton's single and Peterson's triple.

BASKETBALL MEN!

Basketball practice games are continuing on Monday and Thursday nights, and there are still openings for teams. All games and practice are at Leuzinger gym. Interested men should contact PA&S, or Larry Baird, acting commissioner.

FIRST CALL FOR LADY HOOPSTERS TO FORM TEAM

Norcrafter ladies interested in playing basketball are advised that teams are now being formed for the Los Angeles Women's Industrial League, sponsored by the Los Angeles City Recreation and Parks department.

Girls should contact Hilde White, Personnel Activities and Services, telephone extension 637.

Sea Scout's Heroism is Talk of NRC

By Joe Cribbs
President
Northrop Recreation Club

Elsewhere in this issue (page 5 there is the story of a Norcrafter hero, Marvin Forbes.

Joe Cribbs

The NRC Sea Scouts and Mariners are currently lauding a hero, too— Frank Stanford, 16-year-old Hawthorne youth who is a member of the Sea Scouts.

Recently the Mariners journeyed to Catalina for a weekend aboard the Sea Scout ship "Sea Gull", whose crew numbered three: Art Tatosky, scoutmaster, and Scouts Frank Stanford and Bob Wilson, Lennox.

About 11:45 Sunday, while the gang was congregated on a dock, a small two-year-old boy tumbled off the dock into the deep water.

Unhesitatingly Frank plunged in, grabbed the child, swam around to the ladder, and delivered the sputtering baby to his parents. The latter, obviously excited at the turn of events, took off. The witnesses still do not know the family's name.

Frank, a Leuzinger High School junior, only recently completed Junior Red Cross life saving class, taught by Hilde White, PA&S Women's Activities coordinator, who supervised the training for both the Sea Scouts and the Mariners. He had received his badge only the previous Wednesday!

Frank protests that his deed was not much; nevertheless, the fact remains that *he* jumped in after the child before anyone else could act. It's needless to say that his scoutmaster, his school, his parents (Mr. and Mrs. H. E. Fitzgerald), and his friends — plus everyone in the NRC — are proud indeed of Frank Stanford.

Humorous sidelight to the tale — when Frank was asked whether the child was a boy or girl, he didn't know! Frank was too busy to notice!

* * *

You may have puzzled, as thousands of other Norcrafters did, over the display items in the News to the effect that December 5 is an important date for Norcrafters . . . Well, the secret is out—as if you didn't know—on page one of this issue. Save the date; you'll have fun!

BUY DEFENSE BONDS

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office. (Department 4280, Mail Zone 20).

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
WESTERN & SANTA MONICA BLVD. (Travel Western & Van Ness or Crenshaw Blvd.), Hollywood. W. J. FORBELL (5234-17, Ext. 1809), HO. 5-9121. (1-1-1)

ADAMS & HOOVER. (All the way down Hoover or Vermont or will vary route slightly), Los Angeles. TED E. ABEYTA (5437-28, Ext. 2224), RI. 5877. (12-1-1)

WASHINGTON & VERMONT, Los Angeles. W. A. HUTT (5503-212, Ext. 2416), RE. 3168. (12-1-1)

TEMPLE & BOYLSTON. (Nearest intersection Boylston and Bixel on Temple St.), Los Angeles. F. C. MISO (5587-399, Ext. 1947), MU. 7705. (12-1-1)

(Zone 2)
MANCHESTER & NORMANDIE. (Route: Century to Crenshaw to 120th, Prairie to Plant 1), Los Angeles. DONALD WITTMAN (5503-365, Ext. 2681), TW. 0482. (12-1-2)

(Zone 4)
DOWNEY AVE. & IMPERIAL. (Come down El Segundo or Imperial), Paramount. M. MASSEY (5620-24, Ext. 2233), ME. 3-1976. (12-1-4)

(Zone 10)
BLOSSOM LANE, No. Redondo. SHERRY MAZZUCCHI (5503-128, Ext. 2431). (12-1-10)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
WESTERN & SANTA MONICA BLVD. (Travel Western & Van Ness or Crenshaw Blvd.), Hollywood. W. J. FORBELL (5234-17, Ext. 1809), HO. 5-9121. (1-3-1)

WESTERN & 51ST. (Western to 54th to Manhattan to Slauson to Van Ness to Century to Prairie by Plant 1), Los Angeles. PATRICIA MILLER (5224-60, Ext. 2791), AX. 2-5907. (12-3-1)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 2)
FOOTHILL BLVD. & RAMSDELL AVE. (Can pick up passengers in La Crescenta, Verdugo City, Montrose, Glendale, Hyperion Ave., Santa Monica Blvd. or Western Ave. Car pool O.K. New Dodge sedan), La Crescenta. M. L. DUNBAR (5700-12, Ext. 2053), CH. 9-6305.

(Zone 5)
CARSON & WOODRUFF — LAKEWOOD. (Can pick up anywhere between Del Amo and Rosecrans — Lakewood Blvd. and Crenshaw), Long Beach. GEORGE BROWN (9310-101, Ext. 2280). (13-1-5)

(Zone 12)
LIVORNO & SUNSET BLVD. (Via 7th & San Vicente & through Playa Del Rey), Pacific Palisades. JOAN CLARK (5150-24, Ext. 2325). (13-1-12)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
BUNDY & WILSHIRE OR NATIONAL & SAWTELLE. (Existing pool desires more drivers or riders), Los Angeles. HALL EVANS (3530-65, Ext. 463), AR. 7-0036.

SANTA BARBARA & WESTERN OR SANTA BARBARA & DENKER, Los Angeles. MARTHA HAWKSHAW (3144-859, Ext. 1848 or 1849), AX. 2-9074. (13-3-1)

(Zone 2)
FOOTHILL BLVD. & RAMSDELL AVE. (Can pick up passengers in La Crescenta, Verdugo City, Montrose, Glendale, Hyperion Ave., Santa Monica Blvd. or Western Ave. Car pool O.K. New Dodge sedan), La Crescenta. M. L. DUNBAR (5700-12, Ext. 2053), CH. 9-6305.

(Zone 10)
MANHATTAN AVE. & PIER AVE., Hermosa Beach. RALPH G. GAUT (3270-824, Ext. 1274), FR. 2-9880. (13-3-10)

(Zone 12)
VENTURA & TOPANGA BLVD. (Room for one, via Ventura to Northrop), Woodland Hills. J. M. HERRINGTON (6620-2, Ext. 1519 or 2126). (13-20-12)

7:30 a.m. — 5:15 p.m.
(Plants 1 and 2)

(Zone 3)
BROADWAY & 109TH. (Would also like to make contact with someone going by this address in case I needed a ride some morning), Los Angeles. WAYNE T. LAWSON (3230-50, Ext. 1570 or 1886). (14-1-3)

RIDES OFFERED

7:30 a.m. — 5:15 p.m.
(Plants 1 and 2)

(Zone 4)
PARAMOUNT & IMPERIAL HI-WAY, Downey. L. SEEFELD (3257, 3430-111, Ext. 2357), TO. 9-7564. (14-1-4)

3:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 3)
MANCHESTER & SAN PEDRO, Los Angeles. R. E. DAVIS (5524-463, Ext. 2209), PL. 2-2498. (17-1-3)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 3)
SOUTH SAN PEDRO & EAST MANCHESTER. (One to three passengers), Los Angeles. J. L. WILSON, JR. (5587-50, Ext. 1947), PL. 1-9225. (18-1-3)

FLORENCE & CENTRAL. (Want Riders, men or women), Los Angeles. BENNIE COLBERT (5534-256, Ext. 2244), LO. 8-7274. (18-1-3)

(Zone 9)
REDONDO BEACH BLVD. & PRAIRIE AVE., Lawndale. FRANK E. LATHROPE (5524-447, Ext. 2207). Hours 4:45 p.m. to 1:15 a.m. (18-1-9)

(Zone 10)
REDONDO BEACH. (South to 184th, thru Hawthorne, Lawndale and North Redondo. Want three riders), Redondo. G. W. KROMER (5587-280, Ext. 1947). (18-1-10)

Rides Wanted

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
CRENSHAW & 92ND, Inglewood. VIOLET B. VERDEA (5507-94, Ext. 526). (2-1-1)

NORMANDIE & ADAMS OR JEFFERSON & NORMANDIE. (Would like to acquire ride as close to home as possible but will accept any ride within reasonable distance), Los Angeles. LEROY ROBERTS (5586-113, Ext. 2405), RE. 9506. (2-1-1)

(Zone 2)
VERMONT & 79TH, Los Angeles. WILLIAM BAUMGART (5534-65, Ext. 2244). (2-1-2)

MANCHESTER & FIGUEROA. (Will pay a reasonable fee for ride to and from work), Los Angeles. HARRY H. ROBBINS (5165-95, Ext. 549), PL. 6-7414. (2-1-2)

(Zone 5)
BULLIS ROAD & ORCHARD, Compton. STELLA ADKISON (5507-102, Ext. 526), NE. 2-6554. (2-1-5)

COMPTON & GARFIELD. (Will go any place in Paramount and Compton area and at any time to suit you), Paramount. CLIFFORD A. SODEN (5587-88, Ext. 1973), ME. 3-7258. (2-1-5)

COMPTON BLVD. & AVALON BLVD., Compton. CARL SANDRIDGE, JR. (5524-80, Ext. 2209). (2-1-5)

(Zone 9)
MOBILGAS STATION BETWEEN CRENSHAW & PRAIRIE ON 190TH, Torrance. G. H. SUTLIFF (7230-14, Ext. 2210), ME. 4-7970. (2-1-9)

CALLEMAYOR & HIGHWAY 101. (Walteria Area — Victoria Terrace), Torrance. RENE L. GARRY (5584-132, Ext. 1382). (2-1-9)

(Zone 10)
OCEAN GATE AVE. & 131ST, Hawthorne. J. DYAR (5231-63, Ext. 1822). (2-1-10)

HERMOSA AVE. & 4TH, Hermosa Beach. LIONEL TENINI (7510-52, Ext. 2408), FR. 2-4945. (2-1-10)

SEPULVEDA & MANHATTAN BLVD., Manhattan Beach. ANDREW J. GIBA (5163-69, Ext. 2071). (2-1-10)

PACIFIC COAST HWY. & FIRST STREET, Hermosa Beach. MARJORIE A. WILDERMUTH (5507-53, Ext. 526). (2-1-10)

COMPTON BLVD. & INGLEWOOD AVE., Lawndale. LAWRENCE D. PORTER (5508-161, Ext. 2230). (2-1-10)

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 13)
LA BREA & HAZEL, Inglewood. LUCILLE G. MARSHALL (5507-54, Ext. 526). (2-1-13)

(Zone 14)
8TH AVE. & 63RD. (Need ride immediately), Los Angeles. S. M. TAYLOR (5162-360, Ext. 548), PL. 1-0252. (2-1-14)

LA-CIENEGA & OLYMPIC, Los Angeles. JOHN LOHMEYER (5544-90, Ext. 2645), CR. 4-2978. (2-1-14)

ORANGE & HOLLYWOOD BLVD. (I live right behind Graumans Chinese Theatre. I will pay for the ride on weekly basis), Hollywood. ELLSWORTH LITTLELIGHT (5518-21, Ext. 2792). (2-1-14)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
WOODRUFF & ROSECRANS, Bellflower. JOSEPH S. FOTIA (5518-24, Ext. 2792), TO. 6-5383. (2-3-5)

(Zone 10)
OCEAN GATE OR ANZA & 136TH, Hawthorne. AL SIDDONS (5338-26, Ext. 2138), OS. 6-4021. (2-3-10)

(Zone 12)
PICO AT 4TH ST. (Prefer ride, but would join car pool. I have '52 Ford), Santa Monica. H. J. KEITH (5509-52, Ext. 2075), EX. 9-3312. (2-3-12)

(Zone 13)
LA BREA & REGENT, Inglewood. M. H. GARRETT (5518-90, Ext. 2792). (2-3-13)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 2)
23RD & FIGUEROA OR FLOWER, Los Angeles. KARL HUNRATH (3230-147, Ext. 2541 or 2542), PR. 1766. (3-1-2)

HOOVER & W. 60TH ST., Los Angeles. ARLENE RAINA (5100-26, Ext. 469). (3-1-2)

(Zone 3)
LAS TUNAS & TEMPLE CITY, Temple City. LA VERNE KLOBUCAR (9320-89, Ext. 2151). (3-1-3)

(Zone 4)
IMPERIAL & FIGUEROA, Los Angeles. CECILIA M. SULLIVAN (7010- 17, Ext. 1911), PL. 6-4458. (3-1-4)

IMPERIAL HWY. & FIGUEROA, Los Angeles. EVELYN GROSICH (8320-814, Ext. 2011-61). (3-1-4)

(Zone 7)
WESTERN & DENKER AVE., Gardena. VIRGINIA M. PATINO (1441-70, Ext. 691), ME. 4-4200. (3-1-7)

(Zone 9)
HAWTHORNE BLVD. & 161ST. (Ride wanted home from work only), Lawndale. AUDREY HANSTAD (9310-78, Ext. 692). (3-1-9)

(Zone 10)
PIER AVE. & MANHATTAN AVE., Hermosa. MARGE BARKER (5230-11, Ext. 793). (3-1-10)

AVIATION & COMPTON-MARINE BLVD. (Liberty Village), Manhattan Beach. MINNIE C. LAUER (9500-17, Ext. 2254). (3-1-10)

(Zone 12)
MANCHESTER & SEPULVEDA OR SEPULVEDA & 83RD, Los Angeles. CATHERINE E. REESE (7000-41, Ext. 530), OR. 1-5274. (3-1-12)

(Zone 13)
CENTINELA & LA BREA, Inglewood. DOREEN FEDER (1441-58, Ext. 591), OR. 1-0185. (3-1-13)

(Zone 14)
CENTURY & DOTY, Inglewood. CAROL WATSON (5003-15, Ext. 2455). (3-1-14)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
WESTERN & 15TH, Los Angeles. RAY DRUMMOND (8620-64, Ext. 2011), RE. 2-0429. (3-3-1)

(Zone 2)
FIGUEROA & 74TH, Los Angeles. JACK ROPER (3140-33, Ext. 2022), PL. 3-7431. (3-3-2)

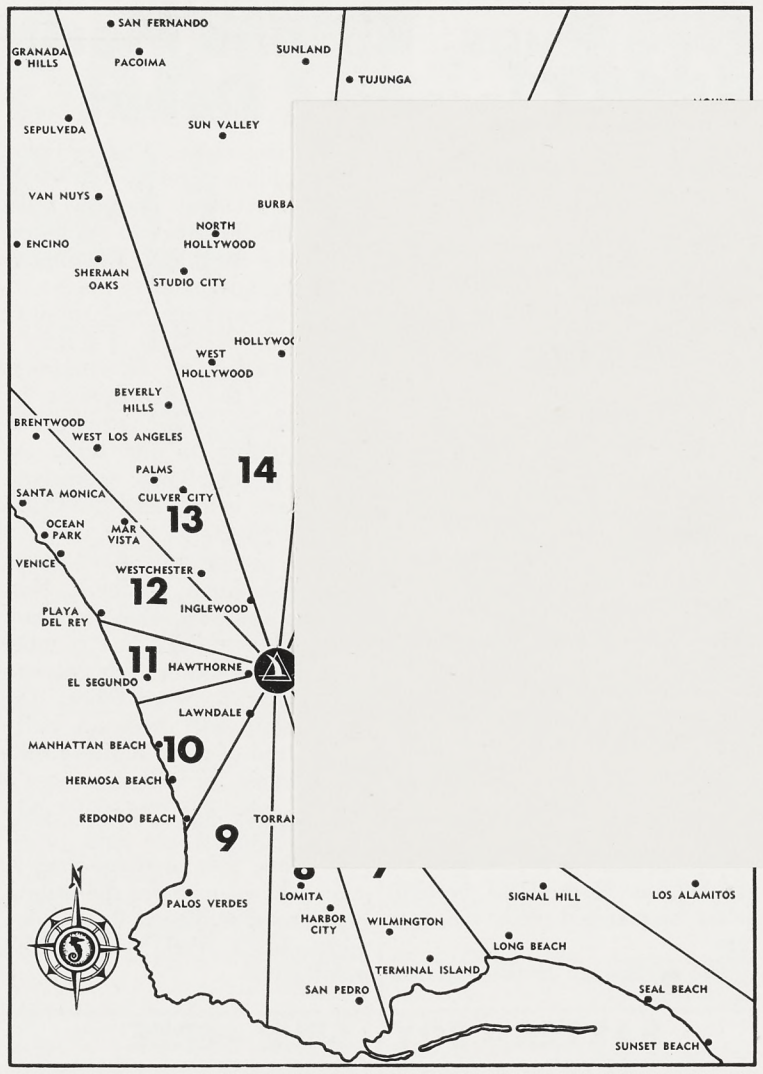
FIGUEROA & 7TH, Los Angeles. HAZEL BOYD (3000-817, Ext. 1227), MA. 0337. (3-3-2)

(Zone 10)
MANHATTAN AVE. & LONGFELLOW. (Six blocks or so from main intersection would be OK if necessary), Hermosa Beach. KENNETH D. RUSSELL (6100-44, Ext. 1298), FR. 4-5485. (3-3-10)

(Zone 14)
WEST BLVD. & SLAUSON AVE., Los Angeles. TERRY KNOTT (8340-814, Ext. 2011-13), AX. 2-5694. (3-3-14)

VERNON & 8TH AVE., Los Angeles. LEON MILLER (3510-122, Ext. 2767), AX. 2-9342. (3-3-14)

PRAIRIE & MANCHESTER, Inglewood. MARJORIE OTT (3140-67, Ext. 2022). OR. 2-4359. (3-3-14)



RIDES WANTED

8:00 a.m. — 4:45 p.m.
(Plants 1 and 2)

(Zone 10)
INGLEWOOD AVE. & 142ND ST. (Will ride with 7:30 A.M. shift in morning), Hawthorne. JOAN M. WARD (4270-20, Ext. 637), OS. 5-2824. (5-1-10)

(Zone 14)
ARBOR VITAE & OAK. (I will come with someone reporting for work at 8:00, and then take bus home in the evening), Inglewood. JEAN CARSON (1441-73, Ext. 691), OR. 2-4627. (5-1-14)

3:45 p.m. — 12:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 2)
HOOVER & W. 60TH ST. (Would accept car pool arrangement, but would prefer to ride), Los Angeles. DONALD RAINA (5506-468, Ext. 533). (6-3-2)

(Zone 13)
SEPULVEDA & CENTINELA OR SEPULVEDA & SAWTELLE, Culver City. GINGER ARKILL (5538-225, Ext. 525 or 2185), EX. 8-4007. (6-3-13)

3:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 3)
JUNIPER ST. & 95TH, Los Angeles. WALTER CURRY (5524-277, Ext. 2209), LO. 9-8792. (7-1-3)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 2)
VERNON & HOOVER, Los Angeles. C. L. BROWN (5586-289, Ext. 1973), AD. 3-2902. (8-1-2)

GRIFFITH AVE. & 18TH ST. (I would like to ride or have some riders), Los Angeles. ALFONSO COLEMAN (5587-690, Ext. 1973), RI. 4049. (8-1-2)

(Zone 4)
CENTRAL & MANCHESTER OR FIRESTONE & ALAMEDA ST., Los Angeles. FOLA NELSON (5507-236, Ext. 526), KI. 9430. (8-1-4)

(Zone 6)
ALAMEDA & CARSON, Long Beach. EARL ALDERMAN (5501-245), TE. 4-8779. (8-1-6)

RIDES WANTED

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 6)
ROSECRANS & WESTERN. (I have to walk three miles every day. If anyone would be kind enough to give me a ride I would appreciate it), Gardena. REYNARD R. GIOVINAZZO (5508-429, Ext. 2230). (8-1-6)

(Zone 8)
CRENSHAW & ROSECRANS, Hawthorne. KATHLEEN LAM (6269-242, Ext. 1681 or 1682), OS. 6-1356. (8-1-8)

(Zone 10)
INGLEWOOD AVE. & 190TH ST., Redondo Beach. L. F. WHEELER (5508-467, Ext. 2230), FR. 9-2840. (8-1-10)

LUCKY MARKET, REDONDO BLVD. (Prefer car pool), Redondo Beach. JOSEPH J. SHETULSKI (5501-657, Ext. 2200). (8-1-10)

(Zone 13)
CENTINELA & LA BREA. (Would be willing to ride with anyone that comes within eight or nine blocks of home address), Inglewood. BOB WEIGLEIN (5584-441, Ext. 1382). (8-1-13)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 1)
VENICE & HOOVER OR ALVARADO & PICO. (Hours—4:15 p.m. to 12:45 a.m.), Los Angeles. ANIS B. SCHOFIELD (5930-238, Ext. 2498), DU. 8-8950. (10-1-1)

(Zone 4)
IMPERIAL HWY. & AVALON. (Hours 4:15 to 12:45), Los Angeles. BETTY J. DRENNON (9330-242, Ext. 1471), PL. 5-3351. (10-1-4)

(Zone 10)
101 HIGHWAY & AVENUE E, Redondo Beach. (Hours 4:15 p.m. to 1:00 a.m.), DELORES L. SHEA (6150-215, Ext. 2051), FR. 5-2807. (8-1-10)

Lynwood

(Zone 6)
VERMONT & 170TH. (I would be willing to pay well for a ride), Gardena. EDNA JACKSON (6269-262, Ext. 125 or 126). (10-Lynwood-6)

NRC BALLROOM DANCE INSTRUCTION SERIES BEGINS ON NOVEMBER 14

It will be the chance of the autumn for ballroom, or would-be ballroom dancers, to improve their style when the special five-session series of progressive dancing lessons gets under way in the NRC Clubhouse next November 14.

With Bill Williams offering professional instruction in various categories to Norcrafters and friends over five weekends, the series of Saturday evening instruction will finish with a special dance and contest to be held February 20. Prizes to be awarded will include trophies for winners, a $25 bond for best all-around couple, and merchandise certificates for runners-up.

Interested Norcrafters should contact PA&S. Price for the five lessons will be $2.50, with instruction scheduled for November 14 and 28, December 19, January 16 and February 6. All shifts are welcome.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below, call or contact Personnel Activities and Services, Plant One, 637; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BALLROOM INSTRUCTION
Series of five lessons to be offered beginning Nov. 14 8:30 P.M. (Saturday nights). Sign up now at PA&S, Plant I and III.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily, Plaster Shop tent 11:00 a.m. Plt. 1, Second Floor, center conference rm. Plant II, 12:30, Conference Rm. 5. 12:15 Plant Three.

BOAT CLUB
Harold Senter, commissioner
Beachcombers Steak Fry, Sat., November 28, 7:30 p.m., NRC Clubhouse annex. (See story, this page.)

BOWLING (days)
Chuck Carson, commissioner
Tournament planned for Christmas Holidays Season. Entry forms and rules available at PA&S.

BOWLING (nights)
Tony Cardoza, commissioner
Holidays tournament. Call PA&S for details.

CAMERA CLUB (days)
Walt Darby, commissioner
Next meeting, Friday, Nov. 6, 8:00 p.m. NRC Clubhouse annex. Combined show.

CAMERA CLUB (nights)
Adam Slusarz, act. comm.
Next meeting, Sat., Nov. 7, 8:00 p.m., NRC Clubhouse annex. Print competition Black, White & Color. Election of officers. All members urged to attend.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (DAYS)
Jim Milne, commissioner
Scheduled monthly meets as posted on Bulletin Boards.

GOLF CLUB (nights)
Bill Levens, commissioner

GUN CLUB
Dick Wood, acting commissioner
Meet every other Tues., 7:30 p.m., NRC Clubhouse. Next meeting Nov. 10.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m., 1016 No. Market St., Inglewood. Sunday, 9:00 a.m. to 12:00 noon.

PHILATELIC CLUB
George Borton, commissioner
Philatelic & Numismatic combined club meets 2nd & 4th Mondays each month, NRC Clubhouse, 7:30 p.m. Next meeting Nov. 9.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun. Nov. 8, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, Nov. 5.

SEA SCOUTS
Frank Ziegler, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Nov. 14. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Nov. 27, NRC Clubhouse Board Room.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse.

SQUARE DANCING
Dave Dyer, commissioner
Meet every Sunday eve., 7:00 to 10:00 p.m., NRC Clubhouse annex.

SURF FISHING
Ted Griswold, acting commissioner
Meet 1st Tuesday each month, NRC Clubhouse, 7:30 p.m. Next meeting Dec. 1, is Beginners Night.

TOASTMASTERS (DAYS)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS (NIGHTS)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon. Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Orval Coley, commissioner
Next meeting Wednesday, Nov. 25, 7:30 p.m., NRC Clubhouse.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 637. NRC Clubhouse is located at 175 N. Hawthorne Boulevard

BASKETBALL
Teams now forming. Interested ladies contact PA&S.

BOWLING
Florence Rice, commissioner
Ladies Handicap League in progress at Torrance Bowl, Tues. 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Interested ladies please contact PA&S.

FLOWER CLUB
Mary Nelson, acting commissioner
Meet first and third Tues. of each month. NRC Clubhouse, 7:30 p.m. New members welcome.

GOLF CLUB
New series of golf lessons now available Culver City Course. Tues, 7 p.m. For more information, call PA&S, 637.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse. Upholstery instruction provided.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP MARINERS
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne. Dance planned for November 7. For details call PA & S, 637.

SLIM 'N TRIM
Meet every Monday, 7:30 p.m., NRC Clubhouse.

TOASTMISTRESS
Marie L. Sauer, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

Trophies Awarded in NRC Open

GOLF TROPHY WINNERS in the recent Northrop open were, from left, kneeling: D. A. Gouze, Don Clarke, Bill Moore, Claude Snapp, T. K. Owens (plant champ), A. E. Titus, E. E. Ashby and Arthur Luedke. Second row: F. S. Gardner, Robert Coughtry, Clyde Blackwell, John Wilhelm, L. A. Maxey, Marvin Pedersen, Leonard Klauer, Roy Burita, Paul Schlue, Wayne Curie, M. T. Goodwin, Warren Chanter, Wayne Hall, Phil Smalley, F. J. McLarney, Glenn Woolpert and Dick Booth. Winners receiving trophies, but unavailable for photograph, were: Mac Kostenbader, C. Potts, Dick Carmichael, Bill Brown Ed Powell, Joe Byrne, Russ Pease, Tom Williams, Clyde Myers, H. W. Landeen, Neil Burgess, Harold Capper, Jim Hing and "Doc" Dockstader. Open is top NRC golf event.

On the Clubhouse Beach For Boat Club Shindig - !

Saronged beachcombers, pirates, ship-wrecked and other similarly costumed Norcrafters of the NRC Boat Club, will meet for the Annual Beachcombers' Dinner Dance on Saturday night, November 28, in the Clubhouse Annex, it has been announced by Harold Senter, NRC Boat Club Commissioner.

Dinner will be served from 7:30 to 9:00 p.m. at which time dancing gets under way.

Must be in costume! Anyone who isn't may end up in the drink, threatens Harold.

A prime rib dinner promises to bolster the sea-going spirits of Norcrafters, with music by Johnny Herrick caulking up where the dance-floor is concerned.

Boatswains of the ticket committee to be contacted for reservations not later than Monday, November 23, are Elmer Chiodo, Plant One; Dorothy Satchell, Plant Two; Harold Senter and Frieda Wasiele of Plant Three; or Personnel Activities and Services Offices. Tickets are $2 each.

Sports Cars To Compete -- Plan Rally

Following the recent first-place gymkhana take by NRC Sport Car Clubster Jack Ward, of Tool Engineering and Planning, the club is planning its next rally for Saturday night, November 21, as announced by Bruce Vernier, commissioner.

Special event of the eve will be a time versus average speed run, with six check points. Members will gather at 6:00 p.m. at the Plant Three parking lot, then will move over the course from there to Lomita.

A total of 37 entries were on hand for the October 25 invitational gymkhana, with several of the drivers representing the Hughes and North American Sports Car Clubs, respectively. With Norcrafters' reputation well protected by Jack Ward's winning in the first category, guests from Hughes also had an enjoyable day by copping second and third places. Each of the winning cars was an MGTD.

Besides the usual tests over a serpentine course — precision parking, acceleration and braking events — a blindfold course was prepared as a special test of marital relationships. Wives were navigators.

Black Bat Award To Missileers

NRC's famous annual Black Bat Tournament, winding up the softball season in grand style, has terminated with the Has Beens of Engineering Labs in top spot, and the Black Batters of Missile Guidance "winning"— by being eliminated first — the large Black Bat.

The Has Beens finished without a loss. Facing Jerry Simonek's Missile Sub-Assembly and Major Structure team in the finals, the Has Beens won themselves a comeback they didn't need by fighting their way through to a 1 to 0 victory.

It was Has Been pitcher Ted Carroll who bested Tommy White in the pitching duel. Carroll yielded two hits to White's four. The Has Beens scored in the last of the sixth on Clayton's single and Peterson's triple.

BASKETBALL MEN!

Basketball practice games are continuing on Monday and Thursday nights, and there are still openings for teams. All games and practice are at Leuzinger gym. Interested men should contact PA&S, or Larry Baird, acting commissioner.

FIRST CALL FOR LADY HOOPSTERS TO FORM TEAM

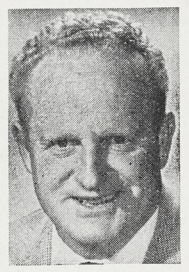
Norcrafter ladies interested in playing basketball are advised that teams are now being formed for the Los Angeles Women's Industrial League, sponsored by the Los Angeles City Recreation and Parks department.

Girls should contact Hilde White, Personnel Activities and Services, telephone extension 637.

Sea Scout's Heroism is Talk of NRC

By Joe Cribbs
President
Northrop Recreation Club

Elsewhere in this issue (page 5 there is the story of a Norcrafter hero, Marvin Forbes.



Joe Cribbs

The NRC Sea Scouts and Mariners are currently lauding a hero, too — Frank Stanford, 16-year-old Hawthorne youth who is a member of the Sea Scouts.

Recently the Mariners journeyed to Catalina for a weekend aboard the Sea Scout ship "Sea Gull", whose crew numbered three: Art Tatosky, scoutmaster, and Scouts Frank Stanford and Bob Wilson, Lennox.

About 11:45 Sunday, while the gang was congregated on a dock, a small two-year-old boy tumbled off the dock into the deep water.

Unhesitatingly Frank plunged in, grabbed the child, swam around to the ladder, and delivered the sputtering baby to his parents. The latter, obviously excited at the turn of events, took off. The witnesses still do not know the family's name.

Frank, a Leuzinger High School junior, only recently completed Junior Red Cross life saving class, taught by Hilde White, PA&S Women's Activities coordinator, who supervised the training for both the Sea Scouts and the Mariners. He had received his badge only the previous Wednesday!

Frank protests that his deed was not much; nevertheless, the fact remains that *he* jumped in after the child before anyone else could act. It's needless to say that his scoutmaster, his school, his parents (Mr. and Mrs. H. E. Fitzgerald), and his friends — plus everyone in the NRC — are proud indeed of Frank Stanford.

Humorous sidelight to the tale — when Frank was asked whether the child was a boy or girl, he didn't know! Frank was too busy to notice!

* * *

You may have puzzled, as thousands of other Norcrafters did, over the display items in the News to the effect that December 5 is an important date for Norcrafters . . . Well, the secret is out—as if you didn't know—on page one of this issue. Save the date; you'll have fun!

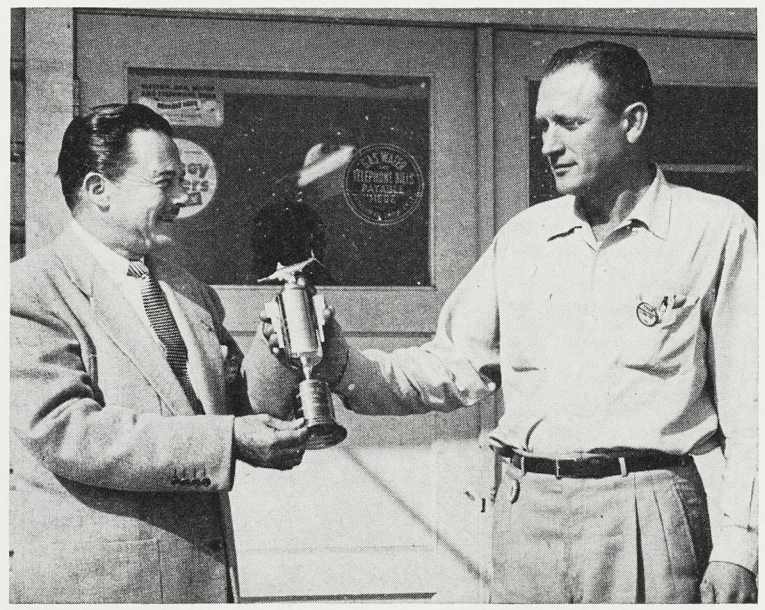
BUY DEFENSE BONDS

THE Northrop Scene BY DAY AND NIGHT

Last Word Insurance - - - !

MRS. TERRY GLENN, nee Fredean Rehkopf, following tradition, feeds wedding cake to new hubby at wedding reception at NRC Clubhouse. Reception followed ceremony at Presbyterian Church in Huntington Park. Terry is the son of Norcrafters Gaylord and Hazel Glenn. Gaylord is an NRC representative and works in the Machine Shop; Hazel is a member of Credit Union office. Wedding of the school-day sweethearts took place while Terry was home on 30-day leave from the U. S. Navy. He is now stationed in Korea and Fredean is living with his family. Club facilities are used for many special events.

NRC Ike Champs



JOHN PAWLICKI, Quality Control (right), receives trophy from Giggie Royse, PA&S, Plant Three, for biggest salt water fish of the year—a 90-pound bat ray caught near Seal Beach. Bob Graeber, Muroc, brought in the largest fresh water fish of the year. (See Northrop News, October 21, 1953 issue, for photograph of Bob and his prize trout.)

OPENING DAY of the deer season was a lucky day for T. C. Bjorklund, Wood Shop, who bagged this 150-pounder with a .32 special Winchester and was back home by 2:00 p.m. that day. Location was Lone Pine Ridge in San Bernardino County. Bjorklund is planning a bear hunting trip for later this month. High Sierras will most likely be the area.

NEW COMMANDING OFFICER of the Civil Air Patrol—. Neal W. Blair, Instrumentation, Florida, recently received orders from the Florida Wing appointing him to CO for the Melbourne Senior Squadron. Neal's duties with the CAP, an auxiliary of the USAF, will include the organization of Air Rescue Missions and other emergency flights. He succeeds Captain Roger Young who transferred to Hawthorne recently. Patrick Norcrafters are active in community life.

Goodhouse

SEPTEMBER CHAMPION in Factory department's Good Housekeeping competition was Electrical and Instruments department (5507). The champs were presented their poster by Gary Hard, center, who administers program. From left, supervisory Norcrafters at the presentation: Vern Vanderville, nights; Doc Westbrook; D. B. Trimble, foreman, days; Assistant Superintendents Len Haueter, nights, and Roy Prueter; Hard; Karl Kiland; Superintendent Al Carr; Carl Engstrand, nights; and Bill Morgan, factory superintendent. Runners-up (sectional winners) were Wood Shop (5406); Outside Final Assembly (5589); and Hawthorne Flight Service (5819.) Keen competition has developed in the contest.

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California — Wednesday, November 18, 1953

TOP TIGER

(See page 3)

MR. AND MRS. PALLADIUM — ! Our own Madelyne Cristelli of Production Assembly and her husband Johnny— both of "The Saturday Evening Post" fame (see November 14, 1953, issue) — have agreed to give exhibition dances at the Palladium Private Party on Saturday, December 5. The Cristellis have won over 150 dance contests, once being rewarded with a week's engagement at a local theatre. See your department clerk for tickets soon—they are limited.

PRIVATE PARTY SET

BIGGEST NRC EVENT DECEMBER 5

Norcrafters are getting set for the biggest of all NRC events—the Palladium Private Party on Saturday evening, December 5.

Benny Strong and his celebrated orchestra will be on the stand playing the old and the new favorites and featuring Milly Coury, Kenny Jackson, and Bernard Press.

The Private Party will be aired during the regular Palladium broadcast—8:30 to 9:00 p.m.—on a nationwide hook-up and at 11:00 p.m. over regional stations.

Tickets to the big NRC pre-holiday private party are 50c each and may be purchased from department clerks. A capacity turn-out is expected and the tickets are limited. Norcrafters planning to attend should get their tickets early.

At press time PA&S reported a few dinner reservations left. Dinner is, of course, optional. Reservations must be made at PA&S, Ext. 2784. Full course dinners start at $1.95.

As a special feature, Madelyne and Johnny Cristelli, who were married at the Palladium, will demonstrate their version of the Balboa. Madelyne and Johnny, it is stated, have set a record of dance hours for non-professional husband-wife dance teams. They dance at the Palladium five nights a week and have been keeping that pace for some fifteen years.

Another Norcrafter, Eddie Johnson, will join Benny Strong as vocalist for a song or two. Eddie, who had singing experience in the east, was "discovered" by Norcrafters when he gave a vocal rendition during a Northrop night at the Aragon Ballroom.

Entertainment will also include features such as a comedy ensemble sing and novelty numbers.

EDDIE JOHNSON

Program of events for the evening is being planned by a committee consisting of PA&S Manager Charles Boyle; NRC President Joe Cribbs; NRC Specialties Chairman Ash Dunning; and Palladium Manager Sterling Wey.

A, H, and C Bombs to be M-C Feature

A highly unusual discussion regarding atomic, hydrogen, and cobalt bombs will feature the next meeting of the Management Club, with Dr. M. M. Russell as speaker of the evening.

The meeting will be held on Friday night, December 4, at the Old Dixie Barbecue, 4267 South Western Avenue.

Kenneth P. Bowen, vice president in charge of Manufacturing and Materiel, will preside over the Question-Answer portion of the program. Questions are being submitted by the membership on forms already supplied via mail; oral inquiries will also be in order.

Additional feature of the evening is the Walt Disney traffic cartoon sensation called "Motormania", which is being shown by courtesy of the National Safety Council. The usual raffle, with the customary Christmas gag-bag much in evidence, will also be conducted.

Dr. Russell, the Board of Control has learned, is currently working for the U. S. government on highly classified projects. He has appeared before various groups in the Los Angeles area previously, and has been warmly endorsed to the Board by their representatives.

Dr. Russell's remarks will necessarily be confined by security regulations, the Board has pointed out, but will still shed considerable light on a little-known subject.

Dinner reservations may be made by members through ticket committee members, or by calling Ticket Chairman Phil Smalley, Management Control, on extension 2641. Dinner will be either Virginia Baked Ham or Broiled Swordfish — tariff is $3.00.

The STORK CLUB

Knights' Delight

Charles and Lowene Knight (she formerly of Systems Administration) welcomed brand new baby daughter Jo Anne on 4 September, 1953, at Torrance Memorial Hospital. Little Jo Anne arrived at the very early hour of 5:04 a.m. She weighed 7 pounds, 15½ ounces. Big brothers David Lee, 5½, and Charlie, jr., 4½, think she is pretty cute.

New Addition

Robert and Dorothy Van Cise, Machine Shop, proudly announce the birth of brand new baby daughter Janet, born on Labor Day, September 7, 1953. Little Janet destorked at Harbor General Hospital, Torrance, at 4:30 a.m. She weighed 5 pounds, 13 ounces. Also happy with the new addition are big brother Kenneth Michael, 4½, and sister Barbara, 2.

First Heir

Stephen and Catherine Finnegan, (he of Advanced Production Control; she formerly of Purchasing) are the proud parents of bouncing baby boy Stephen, jr., born August 25, 1953, at 5:00 a.m. He arrived via Gardena Hospital weighing 6 pounds, 2 ounces. Other Norcrafter relatives of little Stephen are Grandmother Edna Fuller (Production Ordering) and Uncle Frank Finnegan, pop's identical twin (Assembly Stores).

Davises in the News

Wesley L. and Zell Davis (he of Time Standards; she formerly of Production Engineering) announce with pride the birth of second child and son Timothy Arin on 24 August, 1953. Little Timothy, who tipped the beam at 6 pounds, 6½ ounces, arrived via Centinela Hospital at 4:29 p.m. He has a brother, Larry, 11.

Proud Grandfather

Charles Bradshaw, Specifications, proudly announces that he is now a grandfather via birth of baby boy Timothy Craig to his son and daughter-in-law, Bill and Peggy Craig, on 20 October, 1953. Little Timothy destorked at Los Cerritos Maternity Hospital at 8:43 p.m. He weighed a husky 8 pounds, 6 ounces.

Grigsbys Make Headlines

Donald and Barbara Grigsby (she formerly of Blueprint Files) proudly announce the birth of second child and son, Robert Dean, on 1 November, 1953, at exactly 7:00 a.m. Little Robert, weighing 8 pounds, 1 ounce, first glimpsed this world at Centinela Hospital. Big brother Stephen Donald, 2, moves up from the nursery.

Proud Patrick Parents

Congratulations are in order for Walter M. Ufinik (Materiel-Patrick) and wife Jerry on the birth of their first child, Debra Noreen. Little Debra weighed in at 8 pounds, 4 ounces, at the Brevard Hospital on 7 October 1953, at 4:30 p.m.

An Engebretson First

H. Emil Engebretson (Flight Test-Patrick) and wife Marion are the proud parents of Karen Ann, born in Wuesthoff Memorial Hospital on 13 October 1953 at 8:37 p.m. Karen, first child for the Engebretsons, weighed 5 pounds, 15 ounces, at birth.

It's a Girl!

George L. Christen (Instrumentation - Patrick) and wife Martha happily announce the arrival of little Carol Lynn Christen who was born at 8:10 p.m. on 18 October 1953 in the Brevard Hospital. She weighed 7 pounds, 9¼ ounces. Carol is a first child for the Christens.

NRC GUN CLUB SCHEDULES .22 SHOOT BI-WEEKLY

All NRC Gun Club members are informed that a small bore rifle shoot will be on tap every other Sunday between 10:30 and 11:00 a.m. at the Essoe Gun Range—Aviation and Rosecrans, El Segundo.

The last shoot was held Sunday, November 15. The next will be Sunday, November 29.

LADY CAGERS IN PRACTICE PLAY

Although play in the Los Angeles Women's Industrial League does not begin until early January, distaff Norcrafter basketball enthusiasts are holding weekly practice sessions in preparation.

The rehearsals are being held on Wednesday nights, from 7:00 p.m. to 8:30, at 431 E. 89th Street. Douglas women cagers are sharing in the workouts.

Orators Convene

NORTHROP TOASTMASTERS and Toastmistresses staged joint meet recently at Western Club Cafe. TM group representatives are, from left: Ed Creager, Anaheim; Elcee Tuma, Anaheim; George Johnson, representing management; Glen Jackson, Hawthorne (days); Marie Louise Sauer, Hawthorne; Eugene Gruber, Hawthorne (nights); Bob Snider, Ontario. Some 96 Norcrafters and their husbands or wives attended.

Northrop News
Vol. 12 Northrop Field, Hawthorne, Calif. No. 9

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INDUSTRIAL RELATIONS DIVISION, NORTHROP AIRCRAFT, INC.
JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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Norcrafter Ladies Dress Dolls in Annual Contest

FIRST IN LINE to sign—for doll outfitting and entry in the annual NRC Doll Dressing contest are, from left: May Hawkins, Civil Defense office; Women's Coordinator Hilde White—in charge of contest; Betty Johnson, PA&S: Jean Dodge, Credit Union; and Peggy Barber, Accounts Payable. Dolls are available at PA&S offices today, November 18.

Christmas season is fast approaching — and so is the annual NRC Doll Dressing contest for Norcrafter ladies.

Dolls will be available for pick-up at Personnel Activities & Services offices, Plants One or Three, beginning today. Deadline for entries will be Friday, December 11.

As in the past, there will be two divisions in the contest — most beautifully dressed and most uniquely dressed. First prize in each will receive a $25 Savings Bond; second, a $15 gift certificate; third, a $10 gift certificate.

The Doll Dressing contest at Northrop serves a two-fold purpose, for after the judging is completed the dolls are delivered by Northrop Recreation Club to a local children's organization to delight many a little girl on Christmas Day.

Northrop Publications Win Top-flight Honors

Northrop News and Northrop-Anaheim News, the two bi-weekly company publications, have together won five First Place and Second Place honors in the 1953 Pacific Coast Industrial Editors Awards held recently.

The Awards, held annually and sponsored this year by the Southern California Industrial Editors Association, was open to over 500 industrial publications from all the western states, Alaska and Hawaii.

Northrop News won top awards in two categories—sports photo showing Bill Patrick, former Anaheim NRC vice president and renowned archer, in action with his bow; and a headliner company benefit story explaining the Northrop Pension Plan. Northrop News also won second place with a traffic safety feature.

Northrop-Anaheim News, in its first year of entry, won second spot honors with its sports photo showing a Norcrafter Brahma-buster contributed by Roger McGuire, as well as in overall excellence in the layout of a complete issue.

Awards were presented at a joint conference of the Northern and Southern California editors' associations held in San Francisco, October 30 and 31.

SLOGAN CONTEST DEADLINE DUE ON NOVEMBER 23

Norcrafters who are entering the Southern California Red Feather slogan contest (announced in last issue of the News) by completing the statement "I support Northrop Combined Charities because . . ." in twenty-five words or less, have only a few more days to submit their entries.

Entries must be turned in to Personnel Activities & Services on or before next Monday, November 23. Entry blanks are available by calling PA&S, extension 2784.

Top prizes for the best statements include expense-free weekends for two at the St. Francis in San Francisco and the Palm Springs Biltmore plus twenty-nine additional prizes ranging from merchandise orders and appliances to suitcases and picnic sets.

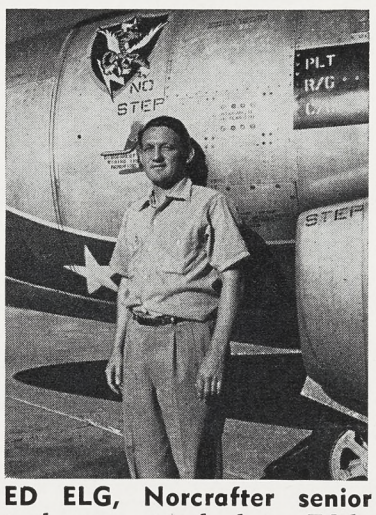
The five best entries, in the opinion of the committee, will each be awarded a $25 Savings Bond. The top 10 per cent of all slogans entered will be submitted for final judging in the Southland contest to a panel of Los Angeles area newspaper men.

Scorpions Shred Tow Targets In Yuma Gunnery Practice

Tow targets were left in shreds when the 74th Fighter-Interceptor Squadron — flying Scorpions — left the aircraft gunnery practice area near Yuma recently for its home base at Presque Isle, Maine.

With squadron commander Major Richard L. Crutcher and his R.O., Captain Joseph E. McCord, showing the way with a top score of 84 per cent, the squadron members sharpened their marksmanship with the Scorpion's 20 mm. cannon on hundreds of simulated-combat sorties over the Arizona desert; and showed the combat readiness of the F-89 and their crews.

Simulated combat conditions were maintained both in the air and on the ground at the Yuma



ED ELG, Norcrafter senior tech rep attached to 74th.

training session. The squadron operated as a self-sustaining unit, providing its own maintenance and spare parts.

In shooting down scores of "phantom bombers" — tow targets — each only six feet by 30 feet, the squadron compiled a record made more significant by the fact that each F-89C carried only 10 per cent of its normal ammunition load. Only two of the Scorpion's six cannons were armed for the gunnery runs.

Using radar and an electronic gunsight to "zero" on the banner-type target, the two-man crews found they could hit the bulls-eye almost at will. The target is relatively small in comparison to large aircraft — it is not much larger than the wing root area of a heavy bomber.

In the runs non-explosive shells were used, but even with these, the squadron lost dozens of targets during their four-week stay—the targets were sieved so thoroughly they tore in two or broke away from the tow line!

Part of the 528th Air Defense Group, 4711th Air Defense Wing, the 74th is a descendant of the famed Flying Tigers of World War II. It flies the Flying Tiger insignia made famous by the American Volunteer Group in Burma and China. The squadron's motto: — "Every man a tiger!"

Liaison man at Yuma between the factory and the squadron was Ed Elg, Northrop tech rep at Presque Isle, who accompanied the Air Force personnel to Arizona. Observers who went to Yuma to view the gunnery training relayed high praise for Ed from squadron personnel.

Squadrons now on active duty at various bases with F-89C Scorpions are being rotated through the gunnery training as part of the ADC preparedness program.

The experience gained in operating the cannon-armed Scorpions will provide a foundation for future training in aerial rocket firing. Squadrons are now being equipped with the "Grand Slam" F-89 — the D-series — armed with 104 air-to-air rockets carried in wing-tip pods.

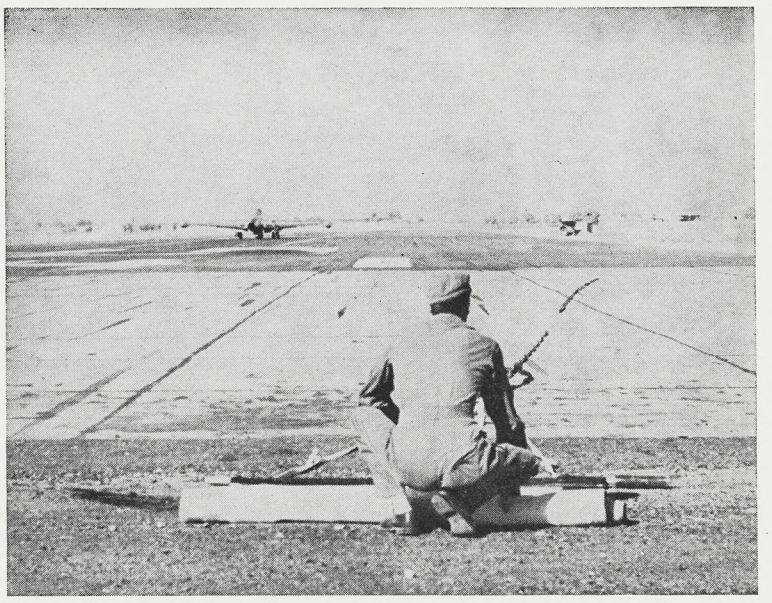
One hit with a rocket fired from the "D" is enough to knock down the biggest bomber known.

T. T. COVER

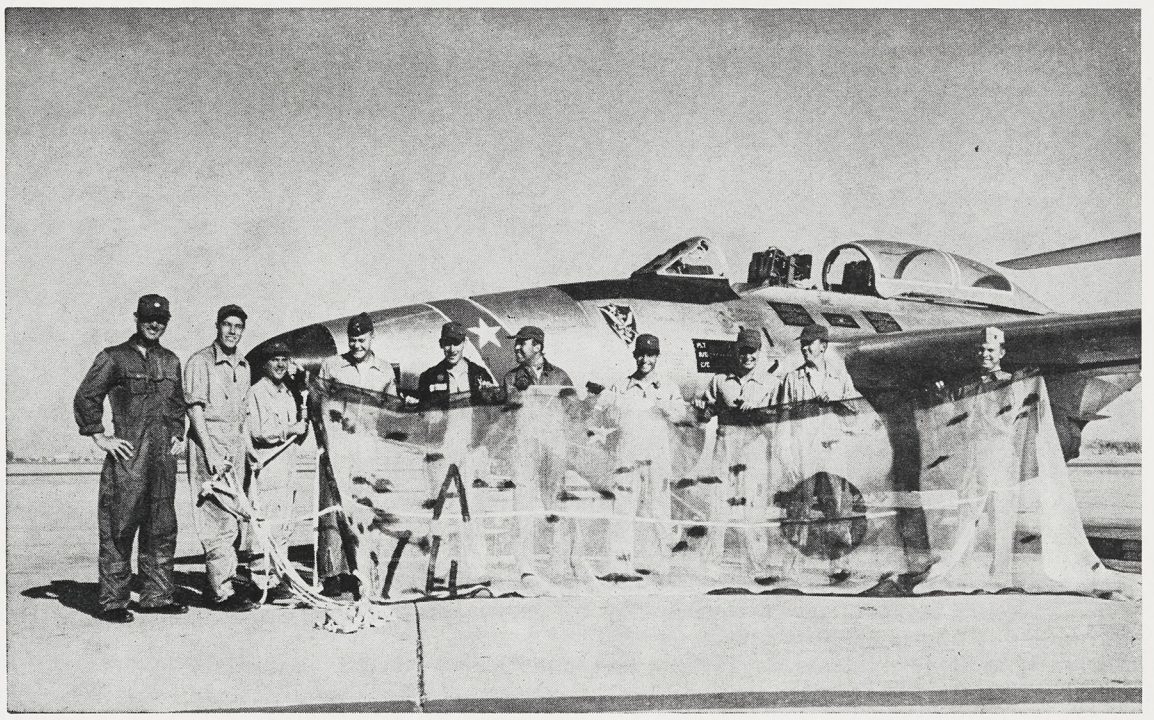
Featured on the cover of this issue is the "top tiger of the 74th", Major Richard L. Crutcher, commanding officer of the 74th Fighter-Interceptor Squadron, Presque Isle, Maine.

Major Crutcher and his R. O., Captain Joseph E. McCord, most effectively demonstrated the sting of the Scorpion at gunnery sessions for the 74th at Yuma. This AF crew shot a top score of nearly 84 per cent.

The photograph was taken by Val Hawes, Photo Lab, whose reflection can be dimly seen in the visor of Major Crutcher's helmet.



GROUND CREW member of 4750th Weapons Training Squadron makes last-minute check of tow target before it will be snatched into air by tow plane for gunnery runs. Target is relatively small—six feet by thirty feet, a banner-type. Scores of the targets were thoroughly riddled by 20 mm. cannon fire directed from Scorpions by pilots, R.O's.



ON SINGLE SORTIE, more than 200 slugs from Scorpion 20 mm. stingers perforated tow target being displayed by members of the 74th Fighter-Interceptor Squadron. Each Scorpion was armed with only 10 per cent of its normal ammunition load, and only two of six guns were used in firing tests at Yuma. Ammo dyed with colors enabled each crew to check own results. Major Crutcher, C.O., is at left.

Spring Street, Los Angeles

EVEN BEFORE the "merry Oldsmobile" became the subject of a nationally-loved song, Herbert Van Duyne, uncle of Denny McMillion, Air Force Quality Control, sported this 1903 model, and was apprehended by L. A. gendarmes for "scorching" the streets at the appalling speed of five miles an hour! The watchful lads at left undoubtedly are the drivers of today. The mud street along which Van Duyne is pointing his horseless carriage is Spring Street. Car had no brakes; had crank jutting out from right side. It cost about $650. Tires were merely over-size bicycle tires; note absence, too, of mudguards (fenders).

AIR FORCE INSPECTOR Denny McMillion, seated, shows old car pictures to Northrop News Assistant Editor Harry Herranen, as latter interviews Denny for story about Herbert Van Duyne, who was arrested in 1903 for "speeding" in Los Angeles. Judge was indignant at speed limit violators.

Repeat Suggestion

MAT CON BACKER George Jones, Sheet Metal Fabrication, shows his leadman, Ronnie Wilson, the operation of equipment he suggested through Suggestion Award Plan. George took home a sizable cash award—the fourth award he has won. This one utilizes cam action holder for more speedy movement of pieces through brake. George has another suggestion in mill now, hopes to make it Number Five on his list of successes. Suggestion Award Plan telephone—2195.

Buzzwagons "Scorched" The Streets

Progress during the fifty years of powered flight obviously has not been confined to aircraft alone.

Quaint reminder of that fact came recently from Denny McMillion, veteran Air Force Quality Control inspector in Plant One, who came to work one day with pictures and clippings to substantiate his story about his uncle, H. E. Van Duyne.

Uncle Herbert was arrested, he pointed out, in early 1904 for "scorching" the Los Angeles streets at a terrifying speed of five miles an hour!

Van Duyne was driving a Model '03 Oldsmobile at the time, and he went to court with 14 other motorists for exceeding the 4-mph speed limit.

And the judge was indignant, Denny recalls, scolding the violators for "scaring the horses and making so much noise".

"It's dangerous to traffic," the judge continued. "*The buzzwagons should not be used in town!*"

The Oldsmobile cost $650. It had carbide head-lights, a rubber-bulb horn, but no tail-light.

It had one clutch pedal on an idler chain drive, but had no brakes (you had to coast to a halt). The one-cylinder engine ran at one set speed, and there was a 'Set Spark' handle on the right side of the seat for starting and running the automobile. Crank was on the right side.

The law at the time forbade any speed faster than a man's walk, calculated then—as now—at four miles per hour.

Denny has in his possession another photograph of a fine 1903 automobile — a Cadillac — one in which he got his first ride, with the same Uncle Herbert.

Signal Honor Awarded to Northrop for Cancer Aid

CERTIFICATE OF APPRECIATION "for notable assistance in the Crusade to Conquer Cancer" was formally presented to Northrop Aircraft Medical Director Dr. Roger D. Mackey by W. B. Stoner, area campaign chairman for American Cancer Society. Mrs. Eugenia Zahm, ACS field rep, and John B. Clark, director of Industrial Relations, approve.

Recognition for efforts made in the crusade against cancer by Dr. Roger D. Mackey and the Medical department at Northrop came recently to the company in the form of a Certificate of Appreciation from the American Cancer Society.

The presentation of the certificate was made by W. B. Stoner, Inglewood pharmacist who heads the area campaign for funds for the ACS. He was accompanied by ACS Field Representative Mrs. Eugenia Zahm.

Three meetings were scheduled during the year for Norcrafters, aimed at providing knowledge for early detection of cancer. The programs, utilizing American Cancer Society films, are in line with the organization's continued program of research, education, and service.

A repeat performance of the cancer program is being planned for early next year, Dr. Mackey said. He emphasized the fact that knowledge of the subject is of extreme importance to both men and women, although two of the three showings made last year were for women only.

Volunteer physicians, interested in cancer and its eradication, generally accompany the film, and after its showing conduct question-answer discussion periods.

Horse Show To Attract Saddle Folk

Personnel Services section of PA&S has announced discount tickets for the Los Angeles International Horse Show now at the Pan Pacific Auditorium—November 13 through 22.

The event is expected to attract equestrians throughout the Southland.

Headline of the show will be the Ute Rangers in a precision drill displaying their spectacular "Magic Light" square dance on horseback.

The discount ducats are available at PA&S, Plants 1 and 3. Norcrafters in outlying facilities may obtain tickets by contacting their representatives or personnel offices.

Night Shift Teamwork

VISUAL AID for Loft department Norcrafters to use in explaining chord lines, and other statistics gathered in course of work, was made by Model Shop. Night shift personnel shown: Bob Brumpton and Howard Fletcher, Model Shop, and Bill Moore and Keith Oviatt, Loft. Small take-apart model represents any airplane; shows all geometric planes found in the Scorpion, for example; gives figures meaning.

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

CHEVROLET, '49 convertible—radio and heater excellent, special plastic top, tonneau cover, other extras (7N 36690), can finance. $945, PAUL BROWNE, WY. 1880. A

CABIN CRUISER, 28', perfect condition, make offer—shown by appointment, RED PHILLIPS. Reply in writing to Northrop News, Box 934. A

WASHING MACHINE, Norge, wringer, with pump, 1 year old, sell reasonable, or trade for transportation auto or radio test equipment, E. STELL. Reply in writing to Northrop News, Box 941. A

FISHING BOAT, 30-foot commercial, Monterey, will take trade of down payment on house or lot or what have you. Can discuss, SVEND KJAR, FRontier 2-4418. A

HOUSE at Lake Arrowhead with dock and boat, on 50 x 120 lot, completely furnished, living room with high beam ceiling and large fireplace, lake within walking distance. $12,500, terms, W. J. CERNY, HO. 4-6471. A

SAILING PRAM, 8-foot, brass fittings, stainless rigging, complete with oars, used once, or will trade for table saw in good condition, $125, N. C. HALE. Reply in writing to Northrop News, Box 926. A

HOUSE, 3 bedroom, 2 years old, Lakewood area, Long Beach district. Trade for home closer to Northrop, A. CALMAN, jr., TOrrey 7-8270. A

TRAIN, Lionel electric freight, smoke and whistle locomotive, 6 cars including automatic milk car, cattle car, coal car, mounted on plywood board with casters, $70, HOMER RALLES, OS. 6-7507. A

CHEVROLET, 1947 Fleetline 4-door sedan, radio and heater, $595, RICHARD C. BALCOM, NE. 8-2891. A

DEARBORN SPACE HEATER, 35,000 BTU, $25, M. NELSON, NE. 5-2265. A

STEEL GUITAR, Electric, excellent tone, beautiful rosewood base, new strings, less amplifier, $30, J. W. HARRIS, OSborne 6-5847. A

COUCH, Two piece sectional, half green leatherette, half fabric, needs new fabric; OCCASIONAL CHAIR, burgundy fabric, best offer over $30 for couch, $12 for chair, L. A. WOLSLAGER, FR. 2-0257. A

REVOLVER, S & W, 32-20, chrome-plated 5-inch barrel, very good condition, $40; WINCHESTER MODEL 65, lever action, 218 Bee, factory fitted new barrel, breech bolt, firing pin, hammer and trigger (Have bill for $35.45) Weaver 330 scope, $85, (without scope $65), gun has not been fired since repair, JOHN G. HOFFACKER, PLymouth 4-7522. A

WASHING MACHINE, Apex wringer type, has pump, is in very good condition, $30, PAT EISELE. Reply in writing to Northrop News, Box 938. A

WASHER, automatic, Launderall, bought new for $332, used four years, runs good, needs minor repair, $35, OPAL THOMAS, FRontier 4-6520. A

IRON, Proctor, like new, $5, JUNE NUEL, FRontier 2-6510. A

CEDAR CHEST, beautiful modern walnut, "tune", perfect condition, $35, DON M. WEAVER, OS. 5-2331. A

MERCURY, 1941, two door sedan, good paint, tires, etc., $250, M. R. MORAN, Reply in writing to Northrop News, Box 940. A

PHEASANTS, forty, live, roosters $3, hens $2.50, TRUE W. OSBORN, ME 4-7949. A

REFRIGERATOR, 8' Philco; RANGE, O'Keefe & Merritt, will sell together or separate, very reasonable, cash or terms can be arranged. J. C. CROW, LOgan 5-6851. A

BENDIX Economat, good condition, $50, ALICE INGRAM, DA. 6-3373. A

TABLE SAW, Delta 10-in., tilting table, complete with steel stand and ½ H. P. Delta motor, like new, $165, HAL NUNN. Reply in writing to Northrop News, Box 942. A

CHEVROLET, 1938 ½ ton pickup, runs good, $75, RUSS LE VESQUE, EX. 7-3004. A

HOUSE TRAILER, 1948 Prairie Schooner, 25-ft., furnished, $750, C. E. LIEDTKE, ME. 4-2506. A

COOKING UTENSILS, one set of Lo-Heat stainless steel, used as demonstrator set, good condition, $60, GERALD H. ANDERSON, OS. 5-2880. A

FOR SALE

MOTOR, new, 3 h.p. repulsion induction, never used, 1 phase—115/220 volts, 3600 r.p.m. $100, L. MASON, OS 6-1943. A

REFRIGERATOR, 1947 6-foot Servel, Gas Co. insured, across-top freezing compartment, $100, excellent condition, RUSSELL W. FRENCH, OR 7-5726. A

DODGE, 1948, 4-door, radio and heater, spotlite, must sell, $50 down, G. E. MERRILL, OS. 6-1238. A

MOTOR BOAT, 13' run-about type outboard, factory built trailer, launcher and numerous accessories, best offer over $250, MARJORIE STEVENS, FRontier 2-8148. A

DEEP FREEZE, 13 cubic foot Ben Hur, chest type, 1½ years old and in like new condition, cost $508 new, $115 for my equity, and pay off balance of $130 at $13 a month to Bank of America. DICK LEWIS. Reply in writing to Northrop News, Box 933. A

FORD, 1935 4 door sedan, very good mechanical condition, has new paint job, good tires and rebuilt engine, best offer takes it, H. KLINE, AX. 2-4146. A

ELECTRIC RANGE, 1948 Frigidaire, 3 burner and deepwell, excellent condition, $50, J. F. KATENKAMP, FR. 7-1296. A

CONSOLE IRONER, like new, Kenmore, $35, D. L. BOWEN, FR 2-0102. A

STAMPS and souvenir sheets from Latin-America, Colombia, Guatemala, Panama, mint and used, blocks and singles, will sell separately or in one lot, "HANK" MUSSENDEN, PL 5-6043. A

FREEZER, 13 foot Kelvinator, chest type, take over payments, nothing wanted for equity, brand new. Payments are $15.95 per month, balance $548, PATRICIA C. HOSE. OSborne 5-3441 (neighbor's). A

CHRYSLER Imperial, 1951 four door sedan, this car has everything, electric windows, torque converter, power steering, and only 15,000 actual miles. Original cost over $5000, will sell for $2500, MAX R. BITTNER, AX 1-2223. A

CHEVROLET, 1941 club coupe, new paint, radio and heater, good condition, $225, J. I. BRAMMER, NE 5-6172. A

CAR RADIO, '41 Buick, 8-tube set, used, but in excellent condition (no knobs), $10, W. W. RATLIFF. Reply in writing to Northrop News, Box 928. A

MOTORCYCLE, 1950 model Mustang, very clean, $125, E. F. LAWSON, OS 6-5983 after 4:00 p.m. A

ROWBOAT and BOAT TRAILER, 12 foot, complete with oars and locks, excellent condition, $75, G. STOCKWELL, ORchard 2-2555 after 5 p.m. A

TOOL CABINET — metal case, wooden drawers, 4 small drawers, 2 long drawers—one is about 1" in depth and one is about 2½" in depth. Will take any reasonable offer, I have no use for chest at all, MARY FORD, MEnlo 4-8662. A

HOUSE, 2 large bedrooms, hardwood floors, disposal and many extras, detached 2-car garage, young orchard in, property fully landscaped and fenced, near schools and shopping, Redondo Beach, $8950, terms available. JOHN F. BAZYK, Frontier 2-7300. A

RADIO, Emerson table model with adapter for RCA record player "45" including 75 "olde" records; BARBELLS, full set including 100 pound weight; barbells $15, radio, record player and records $40, or both for $50. BILL FRANKUM, AX 2-6119. A

WASHING MACHINE, Kenmore Visamatic wringer type, semi-automatic, 3 years old, in good running condition, $35, TEDDY KALTENBACH, FR 5-4582. A

TABLE CLOTH, hand-made, crocheted, size 54 x 62, pineapple design, reasonable. LESTER DICKSON. Reply in writing to Northrop News, Box 930. A

PLYMOUTH coupe, 1942, very clean, 40,000 miles, original owner, excellent condition, $350, JOHN G. TAPP, AT 9-1758. A

STUDEBAKER, 1950 Comm. convertible, beautiful condition, fully equipped, with all extras, trade considered, $875, H. E. KARISH, EX 7-0134. A

AUSTIN, 1952 A-40 four door sedan, top shape, only 13,000 miles, averages 32 m.p.g., leather upholstery, heater and air conditioner. $950, R. E. SWEARINGER, HO 2-5044. A

FOR SALE

STUDEBAKER, Champion, 1941 coupe, very good condition, recent engine and transmission overhaul, clean car, good tires, $175, WARREN BRENNAN, Diamond 8-4678. A

COUCH, hide-a-bed type, grey nylon frieze, large, full double bed when open, coil spring mattress, 7' 6" long when closed, six months old, cost $298, will sell for $150 minus cost for cleaning, MARY FORD, MEnlo 4-8662. A

TYPEWRITER, L. C. Smith silent portable, 1948 model, has been used very little and is just like new. Sells for about $107 including tax, will sell for $75. DONALD CLARKE. RI 4858.

HEDGE CLIPPERS, one pair Sunbeam electric, like new, original cost $37.50, will sell for $25, C. W. STIPE, PLymouth 5-0057. A

PLYMOUTH, convertible, 1950, white sidewalls and radio, $1,250, less trade-in value of $200 maximum, all offers considered. G. A. GARNER. Reply in writing to Northrop News, Box 925. A

AVIARY, small, LOUISE T. McCULLOCH, OR 2-2434. A

REFRIGERATOR, Servel gas, $100; RANGE, Wedgewood gas, $40; CABINET SINK, white enamel, $45; CABINETS, 2 corner buffet, $40 (pair); DINETTE TABLE and four CHAIRS. $25; CABINET, white kitchen, $20, HELEN M. STEPEK, OS 6-8753. A

BOOKCASE, $8; ENCYCLOPEDIAS, set $20; "THE BOOK HOUSE," set of educational books for children 2 to 16, like new, original cost $85, will sell for $30; WHEELBARROW, metal, $5, VIRGINIA BAUBY, ORchard 1-3487. A

ARMY TRUCK (weapons carrier), open bed ¼ ton pick up type, 1942 Dodge—starter, lights, generator, carb., brakes and battery less than one year old. Does not burn oil, not rusted, has plates, $125, E. E. STORM, PLymouth 4-6102. A

FORMAL, ballerina length, pink net, strapless, worn once, $15, LLOYD N. DROM, OSborne 6-5533. A

VACUUM CLEANER, Electrolux, like new, complete with all attachments, only $45. ROBERTA LEE, OS 6-0913. A

MOTORCYCLE, 1949 AJS, new battery, just overhauled, still not broken in, extra chrome, $345, JACK CRAIG, JEfferson 4947. A

HOUSE TRAILER, 35 foot, Terra Cruiser, like new, 12-foot living room, 6-foot dinette, permanent bedroom, bath and disposal, terms arranged, $675 down—will accept up to $300 car or pickup in trade, SAM HIGHSMITH. Reply in writing to Northrop News, Box 924. A

BUICK, 1948 super sedan, A-1, 5 new tires and tubes. Will take '41 or later car as part payment. $775, SAM HIGHSMITH. Reply in writing to Northrop News, Box 923. A

WASHING MACHINE, KENMORE, portable, with automatic timer and hand wringer, $15, W. R. WATKINS, TErminal 5-2096. A

AUTOMOTIVE ACCESSORIES and SPEED EQUIPMENT, HENRY BACHRACH, ARizona 8-6995. A

MOTOR, for Model "A", good condition, make offer; WELDING REGULATORS, make offer; LATHE, small hobby; SHOP EQUIPMENT, miscellaneous; GONDOLA, for grocery store or oil station, 6' long 4' high, $25, EARL DUNCAN, FRontier 2-8335. A

REFRIGERATOR, Admiral, 11 cu. ft. with deep freeze, duo-temp, self-defrosting, looks like new, perfect running condition, cost $499.95 new, will sell for $325, ORchard 2-6998. A

RELAXACIZOR, complete in aluminum airplane type luggage case, almost new, used only a few times, cost $170, would like to get $139 but what will you offer? L. A. OHLINGER, PL. 4-8616. A

MANGLE, G. E. portable; HEATER, G. E. electric, will sell cheap, used only 3 times, terms, SHERRY MAZZUCCHI. Reply in writing to Northrop News, Box 944. A

STOVE, WASHER, REFRIGERATOR, and other household goods, best offer, A. M. HOLTZ, OR. 2-7838. A

DAVENPORT, modern, dark green frieze, makes into bed, new, never used, original cost $249, with matching chair, will sell davenport alone for $125, cash. ORchard 2-6998. A

IRONER, nearly new Kenmore, deluxe, original cost $178, will sacrifice, $98, ARTHUR R. WESTERMANN, OSborne 6-6815. A

SHOTGUN, .16 gauge, 5-shot repeater, bolt action, plus box of shells and carrying case; RIFLE, .22 automatic with scope, box of shells and carry case; MICROMETERS, 1", 2", 4"—$8 to $10. EARL DUNCAN, FRontier 2-8335. A

BAND SAW, 12 inch throat, $50; MOTOR, ⅓ h.p., $12; PRESSURE CANNER, 16 qt. plus cooking pans and book, $15, J. BRANT, ORchard 7-2848. A

FOR SALE

KAISER, 1949 deluxe with overdrive, new paint job, two tone with sun visors, major motor overhaul at 54,000 miles, present mileage 74,000. Bank terms can be arranged, $450, VIRGINIA BAUBY, ORchard 1-3487 after 5. A

BICYCLE, girl's, full size, Elgin, good condition, $25, C. D. MYERS, ME. 4-0079. A

OLDSMOBILE, 1940 4-door sedan, 8 cylinder, good tires, defroster and heater, good transportation, $60, RAY TOMICH, ME. 3-0346. A

A.C. WELDER, 100 amp.; MOTOR, 3½ Briggs & Stratton; CLOTHES LINE POLES; BOAT, 10 foot; MOTOR; TRAILER, reasonable, S. B. HICKS, OS. 6-1471. A

CRUISER, new 24x9½, head, stainless steel galley, sleeps two, Chrysler Crown, mahogany, fast, will take large house trailer, pick-up truck, large outboard as all or part payment, $4500, W. C. NEWMAN, OSborne 6-4841. A

GAS HEATER, large size, will heat room 12 x 25, brown enamel finish, excellent condition, $15, ENID EDMOND, OX. 7-1807. A

HOUSE, 3-room, ranch style, about 5 years old with screened in large porch, patio, barbecue pit, chain link fence, lot 50 x 150, $6,200, furnished $6,500, LOUIS ROBUL. Reply in writing to Northrop News, Box 943. A

WANTED TO BUY

TRAILER, 4 wheel, KENNETH O. FACE, OS 6-8504. B

SINGER electric sewing machine, must be in good condition, DON M. WEAVER, OS 5-2331. B

BABY CRIB, small size, in good condition, B. LEHMANN, OS 6-6093. B

STATION WAGON, Willys, 4-wheel drive, cash deal, T. A. HARRINGTON. Reply in writing to Northrop News, Box 939. B

GAS ENGINE, small, suitable for lawn mower, L. MOIR. Reply in writing to Northrop News, Box 931. B

FISH BOWL, square, 5-gallon, B. L. JOHNSTON, ORchard 2-8351. B

DARKROOM EQUIPMENT, complete — 4x5 enlarger, dryer, washer, tanks, trays, timer, supplies, etc. Give complete details — price, nomenclature, condition and location. W. LOUCKS. Write to Northrop News, Box 948. B

TRANSMITTER-RECEIVER, aircraft, dry-cell operated, "Sky Boy Senior" or equivalent, equipment need not be in operating condition, BILL LAWRENCE, DUnkirk 7-9287. B

TRANSMITTER, 2 meter (about 50 watts phone) and CONVERTER, 2 meter, D. A. WELLS, PL. 1-8816. B

OPAQUE PROJECTOR, or the lens assembly thereof. Projector is of the type that will project any picture, photograph, or clipping upon a screen, (not a slide or transparency projector), ROBERT L. LONERGAN, OS. 6-0336. B

PROJECTOR, 8mm, used; SPLICER and STORAGE CANISTER SET, 8mm, used, J. R. HENDERSON. Reply in writing to Northrop News, Box 947. B

FOR TRADE

WASHING MACHINE, Norge, wringer, with pump, 1 year old, sell reasonable, or trade for transportation auto or radio test equipment, E. STELL. Reply in writing to Northrop News, Box 941. C

FISHING BOAT, 30-foot commercial, Monterey, will take trade of down payment on house or lot or what have you. Can discuss, SVEND KJAR, FRontier 2-4418. C

CRUISER, new 24x9½, head, stainless steel galley, sleeps two, Chrysler Crown, mahogany, fast, will take large house trailer, pick-up truck, large outboard as all or part payment, $4500, W. C. NEWMAN, OSborne 6-4841. C

SAILING PRAM, 8-foot, brass fittings, stainless rigging, complete with oars, used once, or will trade for table saw in good condition, $125, N. C. HALE. Reply in writing to Northrop News, Box 926. C

FOR TRADE

HOUSE, 3 bedroom, 2 years old, Lakewood area, Long Beach district. Trade for home closer to Northrop, A. CALMAN, jr., TOrrey 7-8270. C

STUDEBAKER Champion, 1942, two door sedan, clean, good transportation, will trade for small upright piano in good condition, B. BRACHER, OX 5-6598. C

FREE

KITTEN, gold Persian, with a cute personality, FRANCES PIEPER, MEtcalf 3-0088. D

KITTENS, evenings after 5:00, LAURA A. WILLIAMS, FAirfax 8-4938. D

DOG, black cocker-terrier, gentle and affectionate, 1½ years, ADELINE M. MADIGIAN, TW 4094 after 4:00 p.m. D

RENTALS OFFERED

APARTMENTS, one-bedroom, wall to wall carpeting, stove, refrigerator and garbage disposal, $80 per month, on Crenshaw—15 minutes from Northrop, J. T. DORAN, PL 2-2770. E

APARTMENT, two bedroom, unfurnished, nearly new, in Lynwood near Pacific and Century Blvds. $75 month, JOHN TOURINO, UN 1-6764. E

SHARE APARTMENT, want man to share nice apartment, fully furnished, utilities paid, share rent, food and phone bill, $30 a month, N. L. MANLEY, RE 4-2372. E

ROOM, furnished, in private home, one-half block from beach, $10 per week, G. B. RUTH, FR 2-7414. E

SHARE APARTMENT, lady to share one bedroom first floor apartment, newly furnished and recently decorated, large rooms, plenty of closet space, DOLORES ROCHFORD. Reply in writing to Northrop News, Box 936. E

APARTMENT, brand new one bedroom, upper, unfurnished, beautiful ocean view one-half block from strand, northern Manhattan area, $65 month with garage, G. J. RICHARD, EX 7-8809. E

DUPLEX, 1 bedroom, modern, garbage disposal, fenced back yard, 1 child OK, 5 minutes from Northrop, $75 per month, A. M. HOLTZ, OR. 2-7838. E

HOUSE, two bedroom, large rooms, $85 per month, L. MOIR. Reply in writing to Northrop News, Box 932. E

RENTALS WANTED

HOUSE OR APARTMENT, 1 or 2 bedroom, furnished, not too far from Northrop Plant I or III, 2 adults, both employed at Northrop. Up to $85 per month, ESTHER M. CRAFT. Reply in writing to Northrop News, Box 927. F

HOUSE, 2 bedroom, unfurnished, needed by 4 December. Not to exceed $80 per month, V R. MYERS, PLymouth 6-7361. F

APARTMENT, 1 bedroom, unfurnished, garage, southwest area, employed couple, no children or pets. $60, DOROTHY MINNICH. Reply in writing to Northrop News, Box 935. F

HOUSE, 1 or 2 bedroom, furnished or partly furnished, have 1 small child. Up to $65, NED CHOATE, NE. 2-5792. F

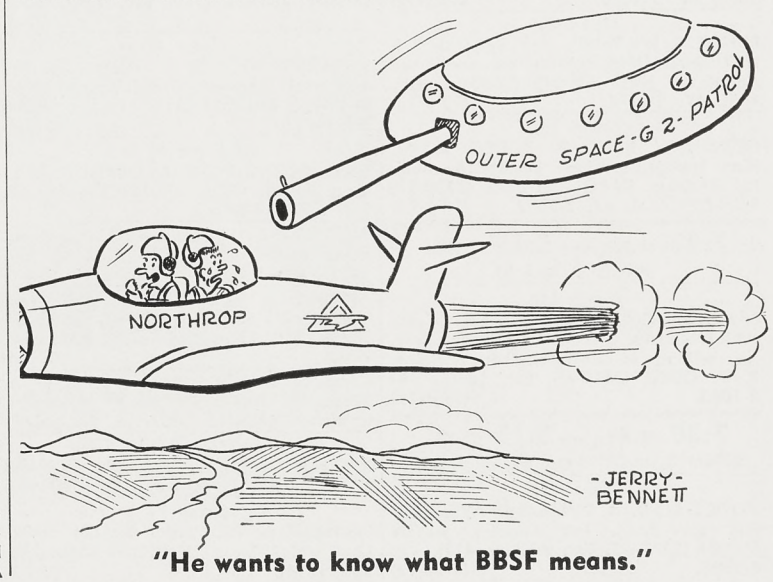
CHILD CARE OFFERED

CHILD CARE, I would like to take care of 2 children age 2½ to 5 years, fenced-in yard, good care, plenty of snacks, hot meals, TV in kitchen at meal times. Day shift—$10 each child per week; swing shift—$12 each child per week (5 days), ANTHONY F. JERZYK. Reply in writing to Northrop News, Box 929. G

CHILD CARE on weekends, $.35 an hour, SHERRY MAZZUCCHI. Reply in writing to Northrop News, Box 945. G

CHILD CARE WANTED

SHARE HOUSE, I would like to share my house with young girl, either rent free and all privileges with private room, in return for care of year-old boy during evenings, or $45 per month, utilities included, NANCY RODRIGUEZ. Reply in writing to Northrop News, Box 947. H



"He wants to know what BBSF means."

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 2)

BROOKLYN & ROWAN OR FIRST & ROWAN, Los Angeles. ALEX MENDER (5508-178, Ext. 2230), AN. 2-6541.

(Zone 3)

ATLANTIC BLVD. & GARVEY, Alhambra. JOSEPH PUTRINO (5164-59), AT. 2-2271. (12-1-3)

(Zone 4)

IMPERIAL & ATLANTIC OR IMPERIAL & LONG BEACH BLVD. (Want three riders. Will go as far north as Tweedy, south to Rosecrans, east to Garfield), Lynwood. JERRY MALUGEON (5501-488, Ext. 2200), NE. 2-3003. (12-1-4)

(Zone 5)

ARTESIA & CLARKE BLVD. (Will exchange ride or join car pool), Bellflower. BRAINARD CHALFON (5501-325, Ext. 2200). (2-12-5)

CARSON & WOODRUFF. (Via Olive or Rosecrans. Prefer car pool), Lakewood. L. W. SHEAROUSE (5587-188, Ext. 2622). (2-12-5)

(Zone 9)

SEPULVEDA & HAWTHORNE BLVD. (I would like a ride or share a ride with anyone working days), Torrance. RONALD L. DeROSIER (5588-395, Ext. 1529 or 1938). (2-12-9)

(Zone 13)

CORBIN & SHERMAN WAY. (Desire getting into car pool from the valley. Can meet ride or riders anywhere from Reseda to Sherman Oaks. Wife also works same hours and needs ride in same pool), Reseda. D. R. CHAMBERLIN (5241-350, Ext. 2075 or 1431). (2-12-13)

(Zone 14)

PANORAMA CITY. (Route: down Van Nuys Blvd. to Beverly Glen to Overland to Centinela to Florence, down to Prairie to Plant No. 1. Can take two riders), Pacoima. M. FIGOFF (5587-367, Ext. 1947), EM. 2-5541. (12-1-14)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 4)

PIONEER & CENTER. (Want a ride or car pool), Norwalk. D. K. JONES (5621-40, Ext. 2208). (2-12-4)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 13)

BUNDY & WILSHIRE OR SAWTELLE & NATIONAL. (Join existing car pool), Los Angeles. HALL EVANS (3530-65, Ext. 463), EX. 8-1176. (3-13-13)

(Zone 14)

RIMPAU & OLYMPIC OR WILSHIRE BLVD., Los Angeles. ED T. WEBB (5112-22, Ext. 1475), WY. 5158. 3-13-14)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 9)

PRAIRIE & 162ND, Lawndale. RICHARD LORGE (3460-16, Ext. 2471). (3-13-9)

(Zone 10)

PIER AVE. & MANHATTAN AVE., Hermosa Beach. RALPH G. GAUT (3270-824, Ext. 1274), FR. 2-9880. (13-3-10)

(Zone 12)

LINCOLN & OCEAN PARK AVE., Santa Monica. LEW (L.C.) KISER (9350-44, Ext. 1810), EX. 9-3305. (13-3-12)

(Zone 13)

BUNDY & WILSHIRE, also SAWTELLE & NATIONAL (Join existing car pool), Los Angeles. HALL EVANS (3530-65, Ext. 463), EX. 8-1176. (13-3-13)

(Zone 14)

CRENSHAW BLVD. & RODEO ROAD. (Can travel Crenshaw or 8th Avenue), Los Angeles. KAROLL SHURTZ (3120-21, Ext. 439-1418), AX. 2-3692. (13-3-14)

7:30 a.m. — 5:15 p.m.
(Plants 1 and 2)

(Zone 14)

SANTA BARBARA & 4TH AVE. (Usual route: 8th Ave., Crenshaw, 120th, Prairie, willing to deviate), Los Angeles. T. D. ODELL (3510-45, Ext. 1570), AX. 2-1065. (14-1-14)

7:30 a.m. — 5:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 13)

VENICE BLVD. & OVERLAND AVE. (Will join car pool), Los Angeles. ALVIN MANN (3270-65, Ext. 411 or 412), VE. 8-2988. (4-14-13)

RIDES OFFERED

7:30 a.m. — 5:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 13)

FREEMAN & HILLCREST, Inglewood. PAUL W. GREEN (3510-349, Ext. 2140). (4-14-13)

(Zone 14)

SANTA BARBARA & 4TH AVE. (Usual route: 8th Ave., Crenshaw, 120th, Prairie, willing to deviate), Los Angeles. T. D. ODELL (3510-45, Ext. 1570), AX. 2-1065. (14-3-14)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 5)

LAKEWOOD BLVD. & STEARNS. (Lakewood to Rosecrans to Prairie, will alter route slightly), Long Beach. ED WEIPPERT (5501-606, Ext. 2200), 902308. (18-1-5)

ALAMEDA & EL SEGUNDO BLVD. (Route as follows: from Broadway to El Segundo Blvd., going east across Wilmington ave. in Compton, stop one block west of Alameda St., Compton), Compton. OSCAR JONES, jr. (5504-249, Ext. 1424), NE. 8-1456. (18-1-5)

(Zone 9)

TORRANCE BLVD. & HWY. 101. (Can go to Redondo Beach Blvd. over to Prairie and down El Segundo, or can come Pacific Coast Hi-Way), Redondo Beach. SHIRLEY TIMAR (5502-492, Ext. 2741). (18-1-9)

(Zone 10)

ROSECRANS & INGLEWOOD AVE. (Would like to join car pool), Lawndale. W. C. NEWMAN (5587-619, Ext. 2236), OS. 6-4841. (8-18-10)

AVIATION & MANHATTAN BEACH BLVD., Manhattan Beach. E. F. DERTIL (5501-676, Ext. 2200 or 1814). (18-1-10)

(Zone 14)

VENICE & LA BREA. (Either take riders or car pool), Los Angeles. JIM M. GRIDER (5585-221, Ext. 1381), WE. 8-1156. (8-18-14)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 9)

TORRANCE BLVD. & HWY. 101. (Can go to Redondo Beach Blvd. over to Prairie and down El Segundo, or can come Pacific Coast Hi-Way), Redondo Beach. SHIRLEY TIMAR (5502-492, Ext. 2741). (18-3-9)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 3)

VIA RAMONA FREEWAY. (Hours: 3:45 to 1:45. Route: Harbor Freeway — Figueroa — Santa Barbara — Crenshaw — Manchester — Prairie to Plant 1), Los Angeles. M. R. BUSTAMANTE (5162-451, Ext. 548), AN. 1-8970. (20-1-3)

Rides Wanted

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 2)

FIRST & BROADWAY, Los Angeles. ERNEST JOHNS (5508-135, Ext. 2230). (2-1-2)

(Zone 4)

VERMONT AVENUE & 120TH ST. (By way of El Segundo Blvd.), Los Angeles. RALPH T. BARRETT (5411-17, Ext. 1808), PL. 5-4236. (2-1-4)

(Zone 5)

SAN ANTONIO DR. & ORANGE AVE., Long Beach. G. J. KRUMMER (5163-63, Ext. 2071), 4-04370. (2-1-5)

WESTERN & EL SEGUNDO, Gardena. ROSE MARIE MITCHELL (5504-64, Ext. 1424), ME. 9-2694. (2-1-5)

ARTESIA & CLARKE BLVD. (Will exchange ride or join car pool), Bellflower. BRAINARD CHALFON (5501-325, Ext. 2200). (2-1-5)

CARSON & WOODRUFF. (Via Olive or Rosecrans. Prefer car pool), Lakewood. L. W. SHEAROUSE (5587-188, Ext. 2622).

(Zone 6)

XIMENO & 4TH, Long Beach. EDWARD W. AYER (5122-15, Ext. 559), 9-08604.

(Zone 7)

WESTERN & REDONDO BEACH BLVD., Gardena. JACK L. HOLCOMB (5501-324, Ext. 1814). (2-1-7)

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 9)

PRAIRIE AVE. & 147TH ST., Hawthorne. DIXIE J. KER (5508-180, Ext. 2230).

SEPULVEDA & HAWTHORNE BLVD. (I would like a ride or share a ride with anyone working days), Torrance. RONALD L. DeROSIER (5588-395, Ext. 1529 or 1938). (2-1-9)

(Zone 10)

MANHATTAN BEACH BLVD. & DOW AVE., No. Redondo Beach. JIM PENNY 5587-701, Ext. 2622), FR. 4-5690. (2-1-10)

HAWTHORNE & COMPTON, Lawndale. RONALD E. WEISER (5584-185, Ext. 1381). (2-1-10)

(Zone 12)

LENNOX & INGLEWOOD AVE., Inglewood. ALICE U. DWYER (5304-56, Ext. 1424). (2-1-12)

(Zone 12)

LINCOLN & PICO, Santa Monica. IRENE NEARHOFF (5352-40, Ext. 1445). (2-1-12)

(Zone 13)

CENTURY & PRAIRIE, Inglewood. LEE BEAR (5584-711, Ext. 1381). (2-1-13)

CORBIN & SHERMAN WAY. (Desire getting into car pool from the valley. Can meet ride or riders anywhere from Reseda to Sherman Oaks. Wife also works same hours and needs ride in same pool), Reseda. D. R. CHAMBERLIN (5241-350, Ext. 2075 or 1431). 2-1-13)

HIGUERA & WASHINGTON BLVD. (always prompt), Culver City. M. S. McKELLAR (5223-343, Ext. 1485), VE. 8-6289. (2-1-13)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 4)

PIONEER & CENTER. (Want a ride or car pool), Norwalk. D. K. JONES (5621-40, Ext. 2208). (2-3-4)

(Zone 7)

VERMONT OR NORMANDIE & 223RD, Torrance. L. I. KING (5509-22, Ext. 2075), FA. 8-5151. (2-3-7)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 1)

MANCHESTER & VAN NESS. (Can meet driver if it will be possible to park my car in the meeting area all day), Los Angeles. GENEVA A. BOSWELL (5930-37, Ext. 2661), PL. 1-9024. (3-1-1)

(Zone 2)

FIGUEROA & 7TH. (Hours 8:00 or 8:30 but will ride with anyone coming in at 7:30), Los Angeles. Dr. PRINCE (1400-5, Ext. 1414), MA. 9-4321. (3-1-2)

(Zone 4)

FOSTER ROAD IN FOSTER GARDENS. (Will meet wherever convenient), Norwalk. JOHN V. PUGH (5112-24, Ext. 1475). (3-1-4)

(Zone 8)

CRENSHAW & 154TH OR VAN NESS & COMPTON, Gardena. JEANETTE MARYNOWSKI (4210-16, Ext. 641 or 616), ME. 4-4417. (3-1-8)

(Zone 9)

PRAIRIE & 174TH, Torrance. MYRNA HERDER (5125-19, Ext. 1904). (3-1-9)

(Zone 10)

HAWTHORNE BLVD. & 135TH ST. (Need ride starting Friday. Prefer someone who will pick up and deliver to house), Hawthorne. EDITH M. MURRAY (9330-34, Ext. 1471), OR. 2-7474. (3-1-10)

ROSECRANS & 135TH, Hawthorne. GRETA HOWELL (9330-26, Ext. 1474), OS. 5-3539. (3-1-10)

HAWTHORNE BLVD. & 134TH STREET, Hawthorne. DORIS CHRISTENSEN (4240-31, Ext. 777), OS. 6-6503. (3-1-10)

(Zone 13)

BUNDY & WILSHIRE OR SAWTELLE & NATIONAL. (Join existing car pool), Los Angeles. HALL EVANS (3530-65, Ext. 463), EX. 8-1176. (3-1-13)

(Zone 14)

RIMPAU & OLYMPIC OR WILSHIRE BLVD., Los Angeles. ED T. WEBB (5112-22, Ext. 1475), WY. 5158. 3-1-14)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)

HOLLYWOOD & NORMANDIE or SUNSET & VERMONT, Hollywood. EMERY J. BALKOVIC (3410-132, Ext. 1983), NO. 9324. (3-3-1)

ADAMS & NORMANDIE OR BUDLONG, Los Angeles. JEAN V. SANDBERG (1435-12, Ext. 2761), RE. 4-5130. (3-3-1)

(Zone 2)

FIGUEROA & 79TH, Los Angeles. ALMA MILLER (3410-822, Ext. 1982). (3-3-2)

(Zone 4)

FIGUEROA & IMPERIAL, Los Angeles. GERI GALUPPO (3140-759, Ext. 455), PL. 4-1935. (3-3-4)

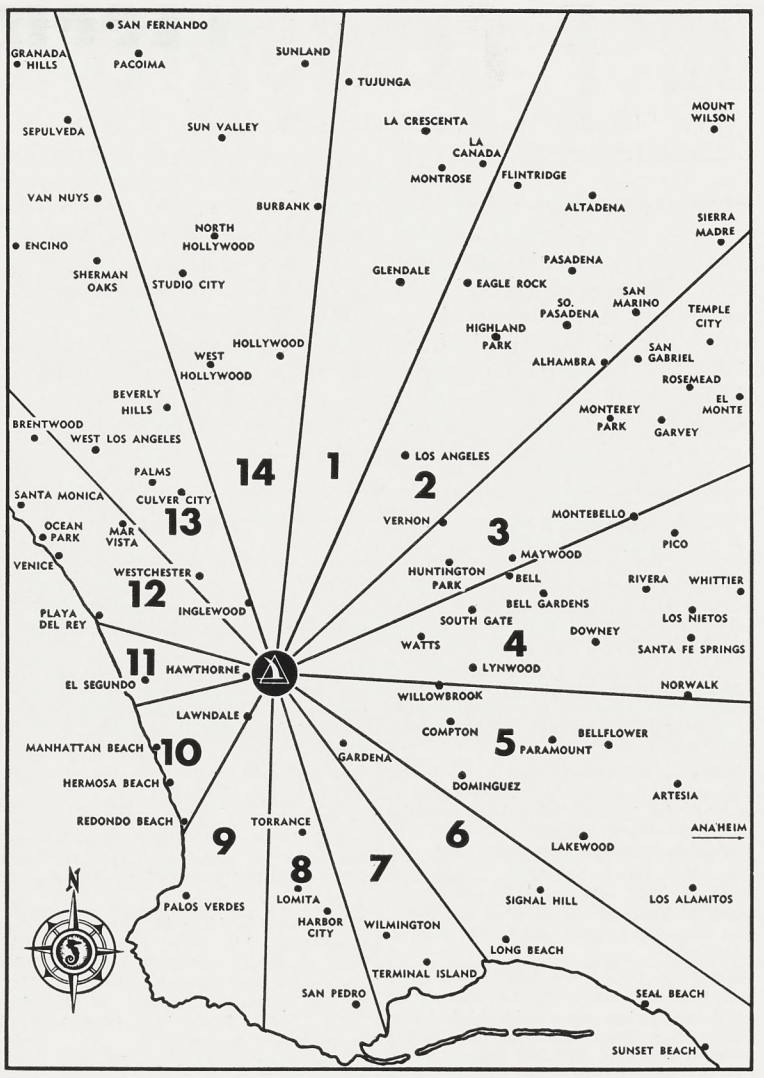
IMPERIAL & VERMONT, Los Angeles. JEANNE RIVELLO (3140-825, Ext. 1839), PL. 4-2542. (3-3-4)

(Zone 5)

(Will drive to Orange, Anaheim or other city near to Santa Ana to pick up ride), Santa Ana. LUCILLE G. STRANGE (1810-822, Ext. 1326), KI. 2-6345. (3-3-5)

(Zone 9)

PRAIRIE & 162ND, Lawndale. RICHARD LORGE (3460-16, Ext. 2471). (3-3-9)



RIDES WANTED

7:30 a.m. — 5:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 13)

BUNDY & WILSHIRE OR SAWTELLE & NATIONAL. (Join existing car pool), Los Angeles. HALL EVANS (3530-65, Ext. 463), EX. 8-1176. (3-3-13)

VENICE BLVD. & OVERLAND AVE. (Will join car pool), Los Angeles. ALVIN MANN (3270-65, Ext. 411 or 412), VE. 8-2988. (4-3-13)

FREEMAN & HILLCREST, Inglewood. PAUL W. GREEN (3510-349, Ext. 2140). (4-3-13)

8:00 a.m. — 4:45 p.m.
(Plants 1 and 2)

(Zone 10)

ROSECRANS & PRAIRIE, Hawthorne. KAY FLINT (9340-21, Ext. 2264), OS. 6-6125. (5-1-10)

8:00 a.m. — 4:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 6)

WESTERN & 146TH, Gardena. M. A. MUNOZ (1435-14, Ext. 2761). (5-3-6)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)

BEVERLY BLVD. & ALVARADO, Los Angeles. ARTHUR MOREIRA (5508-494, Ext. 2230), DU. 4-3894. (8-1-1)

WASHINGTON BLVD. & VERMONT OR ADAMS & VERMONT, Los Angeles. VIRGINIA SCHMITT (5373-219, Ext. 1488 or 1489), RE. 1-3843. (8-1-1)

ECHO PARK AVENUE & SUNSET BLVD., Los Angeles. OSCAR W. PARSONS (5501-258, Ext. 2200). (8-1-1)

(Zone 5)

ROSECRANS & PARAMOUNT BLVD., Paramount. JOHN FEEZELL (5544-474, Ext. 2645). (8-1-5)

ROSECRANS & LONG BEACH BLVD., Compton. WALTER W. JOHNSON (5587-837, Ext. 1947). (8-1-5)

CENTRAL & OLIVE, Compton. RUBY L. MATTHES (5503-426, Ext. 2681), NE. 2-1246. (8-1-5)

(Zone 6)

LONG BEACH BLVD. & 56TH STREET, Long Beach. SHARLENE MEADOWS (5507-403, Ext. 526), 209745. (8-1-6)

GARDENA BLVD. & DENKER AVE., Gardena. ANGELINA CONTRERAS (5544-222, Ext. 2421), ME. 4-1219. (8-1-6)

(Zone 7)

AVALON BLVD. & ANAHEIM, Wilmington. R. A. McGEE (5586-435, Ext. 1973). (8-1-7)

(Zone 10)

ROSECRANS & INGLEWOOD AVE. (Would like to join car pool), Lawndale. W. C. NEWMAN (5587-619, Ext. 2236), OS. 6-4841. (8-1-10)

(Zone 12)

SEPULVEDA BLVD. & 96TH ST., Los Angeles. TONY CARAGHER (5587-681, Ext. 1973), OR. 1-7227. (8-1-12)

(Zone 13)

MANCHESTER & MARKET. (Would like ride at least going home from work), Inglewood. HIPOLITO DELORA (5587-829, Ext. 1973). (8-1-13)

RIDES WANTED

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 14)

OAK & OLIVE, 1 block south of Manchester. (Will walk to Manchester and Oak to be picked up), Inglewood. VIVIAN M. NIX (5507-298, Ext. 526), OR. 2-6808. (8-1-13)

CENTURY & WESTERN OR CRENSHAW, Inglewood. EDITH JOINER (5507-402, Ext. 526), PL. 5-8508, between 12:00 and 3:00 p.m. (8-1-14)

HYDE PARK BLVD. & CRENSHAW BLVD., Los Angeles. W. G. LEACHER (5524-451, Ext. 2209). (8-1-14)

CRENSHAW & 27TH STREET. (Four blocks east of Crenshaw), Los Angeles. C. WOODRUFF (5162-454, Ext. 548), RE. 1-1901. (8-1-14)

VENICE & LA BREA. (Either take riders or car pool), Los Angeles. JIM M. GRIDER (5585-221, Ext. 1381), WE. 8-1156. (8-1-14)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)

WESTERN & 49TH OR NORMANDIE & 49TH, Los Angeles. S. BENYUK (5502-278, Ext. 2741), AX. 2-9296. (8-3-1)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 2)

FIGUEROA & 7TH. (Hours 8:00 or 8:30 but will ride with anyone coming in at 7:30), Los Angeles. Dr. PRINCE (1400-5, Ext. 1414), MA. 9-4321. (3-10-2)

(Zone 6)

COMPTON BLVD. & NORMANDIE AVE. (Hours 4:15 to 12:45), Gardena. PATRICIA J. HUNSAKER (9330-219, Ext. 1471), ME. 4-2629. (10-1-6)

(Zone 8)

CRENSHAW & 139TH or ROSECRANS. (Especially need the ride home. Could wait until 1 or 1:15 a.m. on driver. (Hours 4:15 to 12:45), Hawthorne. KATHLEEN E. LAM (6296-242, Ext. 1681 or 1682), OS. 6-1356. (10-1-8)

Miscellaneous (Split Shifts)
(Plant 3 and El Segundo Buildings)

(Zone 9)

INGLEWOOD AVE. & 185TH. (Hours 4:15 to 1:00), Redondo Beach. M. M. CHENOWETH (6335-212, Ext. 2521). (10-3-9)

(Zone 13)

RIVERSIDE & FULTON OR WOODMAN. DICK HIRST (6230-220, Ext. 2119). (Hours 4:15 to 1:00), Sherman Oaks.

Lynwood

3:45 p.m. — 12:15 a.m.

(Zone 2)

MAIN & 7TH. (Would appreciate ride, if only one way; from the plant to home), Los Angeles. JOHN B. RHODES (7100-238, Ext. 1611), TU. 3194. (6-Lynwood-2)

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BALLROOM INSTRUCTION
Series of five lessons being offered beginning Nov. 14, 8:30 p.m. (Saturday nights). Sign up now at PA&S, Plant I and III.

BASKETBALL CLUB (day)
Larry Baird, acting commissioner
Scheduled practice Monday & Thursday evening 7:45 to 10:00, Leuzinger High School Gym.

BASKETBALL CLUB (night)
Available practice sessions at Rosecrans Playground, 149th and Vermont, Gardena—Monday and Tuesday mornings, 10:00 to 12:00.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily, Plaster Shop tent 11:00 a.m. Plt. 1; Second Floor, center conference rm. Plant II, 12:30; Conference Rm. 5, 12:15 Plant Three.

BOAT CLUB
Harold Senter, commissioner
Beachcombers Steak Fry, Sat., November 28, 7:30 p.m., NRC Clubhouse annex.

BOWLING (days)
Chuck Carson, commissioner
Tournament planned for Christmas Holidays season. Entry forms and rules available at PA&S.

BOWLING (nights)
Tony Cardoza, commissioner
Holidays tournament. Call PA&S for details.

BRIDGE CLUB
Bill Glose, acting commissioner
Met Tuesday evening, Nov. 24, NRC Clubhouse. Chartered — Rating Points.

CAMERA CLUB (days)
Walt Darby, commissioner
Next meeting, Friday, Nov. 20, 8:00 p.m., NRC Clubhouse annex.

CAMERA CLUB (nights)
Adam Slusarz, acting commissioner
Next meeting, Sat., Nov. 21, 8:00 p.m., NRC Clubhouse annex.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (days)
Jim Milne, commissioner
November tournament to be announced on bulletin boards.

GUN CLUB
Dick Wood, acting commissioner
Meet every other Tues., 7:30 p.m., NRC Clubhouse. Next meeting Nov. 24.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m., 1016 No. Market St., Inglewood. Sunday, 9:00 a.m. to 12:00 noon.

PHILATELIC CLUB
George Borton, commissioner
Philatelic & Numismatic combined club meets 2nd & 4th Mondays each month, NRC Clubhouse, 7:30 p.m. Next meeting Nov. 23.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun. Nov. 22, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, Nov. 19.

SEA SCOUTS
Frank Ziegler, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Nov. 28. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Nov. 27, NRC Clubhouse Board Room.

SOFTBALL CLUB
Paul Wheeler, commissioner
Softball award buffet dance at NRC Clubhouse, Saturday, Nov. 21, 7:30.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse.

SQUARE DANCING
Dave Dyer, commissioner
Meet every Sunday eve., 7:00 to 10:00 p.m., NRC Clubhouse annex.

SURF FISHING
Ted Griswold, acting commissioner
Meet 1st Tuesday each month, NRC Clubhouse, 7:30 p.m. Next meeting Dec. 1, is Beginners' Night.

TOASTMASTERS 212 (days)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS 1398 (nights)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon. Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Orval Coley, commissioner
Next meeting Wednesday, Nov. 25, 7:30 p.m., NRC Clubhouse.

Keglers Hit Maple Hard, NRC Report

Bowling for the Winter leagues has now reached the one-third mark, and close races are reported in all leagues.

Several good games and series have been recorded in the last few weeks: Bert Osterberg, 259; Ralph Gaskins, 256-602; Loren Hamilton, 218-619; Wes Carr, 259-628; Ted Belitz, 224-651.

Some top scores from the night bowlers are: Bob Dubois, 267-614; Nick Tenenini, 254, 257-723; Garland Steiner, 253-622; Frank Blair 244-626; Arnold Jennings, 253 game; George Hantula, 254 game; and Lennie Muellich, a 248 game.

The race for the six positions on the team to represent NRC in the State Tournament is still wide open.

Al Foedisch, Phil Loth, Woody Howsare, Al Amundson, Phil Reeder, Wes Carr and Ted Belitz are setting the pace. Jim Stewart, Roy Gard, Neal Elder, Ralph Vincent, Loren Hamilton, Jim Chamberlain and Jack Ward are close on their heels.

Advance reservation entry blanks for the State tourney—to be held in May at Long Beach—are now available at PA&S.

SKI ENTHUSIASTS BEGIN MAKING WINTER SCHEDULE

Ski time!

Skiers are urged to call in names and clock numbers to PA&S, extension 2784. Winter weekends and a possible Christmas week trip are being planned.

The NRC will not own a tow this year; the club will be free to roam. Interest, shown by phone-ins, will determine scheduling of an early meet.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard

BASKETBALL
Teams now forming. Practice sessions at Green Meadows Playground, 431 E. 89th St. every Wed. night, 7:00 p.m.

BOWLING
Florence Rice, commissioner
Ladies Handicap League in progress at Torrance Bowl, Tues. 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Next meeting Nov. 24. NRC Clubhouse. Thanksgiving party for orphans. Interested ladies please contact PA&S

FLOWER CLUB
Mary Nelson, acting commissioner
Meet first and third Tues. of each month. NRC Clubhouse, 7:30 p.m. New members welcome.

GOLF CLUB
New series of golf lessons now available Culver City Course. Tues. 7 p.m. For information, call PA&S, 2784.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse. Upholstery instruction provided. See photos, page 8.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP MARINERS
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Marie L. Sauer, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

Flower Club Thriving On "How To" Sessions

Winter holds no sway over the NRC Flower Club, reports Mary Nelson, acting comish.

Membership has tripled, and the recent meeting was a huge success, with Leo Morhaime and Fortune Pritchard, of View Park Florist, demonstrating flower arranging and corsage making.

Members of the club are enjoying their workshop-type meetings. Each Norcrafter lass present last time was presented with a gardenia, then was shown how to make it up into a corsage.

Gals took home many door prizes, consisting of the floral arrangements made up during class. Grace Gomes, of Accounts Payable, and Florence Poynter, Tabulating Control Operations, for instance, won displays, including frog and bowl.

Leslie Greer, also of Tabulating Control Operations, won the planter, and the model carnation corsage went to Eleanor Miller, Engineering Lab Service. Guests were lucky too, with Mae Arms receiving an orchid corsage.

Next big meeting will be December 1, when Leo will return again, this time with Jack Isrrael, to instruct the ladies in making making wreaths, table decorations and other Christmas and New Year musts.

AUTHORITIES ON TROPICAL FISH TO ADDRESS CLUB

The NRC Tropical Fish Club will host two well-known authorities on tropical fish at its next monthly meeting, it has been announced by Commissioner Orval Coley.

Guest speakers will be Ken McCormick, president of Los Angeles Foundation of Aquarium Societies, and Allan Bellerue, president of Pasadena Aquarium Society.

The meeting will be held Wednesday, November 25, in the NRC Club House at 7:30 p.m. All Norcrafters are invited.

NRC Members At Sea

"SAIL" DERBY winning catches are in back of minds of these Florida Norcrafters as they start for deep sea fishing grounds. From left: Agnes Flournoy, Dick and Hattie Carroll, Marge Kerner and Bob Flournoy. Efforts were not in vain as Dick's 7-foot 4-inch sail tied for high catch with the one brought in by Mrs. Frank (Mildred) Kulk on the same day.

MORE FLORIDA Ike Waltons—! Proud fishermen posing with catches—from left: Bob Sties, Instrumentation; Grant Lindgren, Communications; Joe Smith, Autopilot; Neil Blair and Joe Hodge, Instrumentation. Neil belongs to the biggest fish—7-foot 2-inch sail. In background are king mackerel, dolphin and bonita which added to boat load of winners.

Night Shift TM Charter Award Made

By Joe Cribbs
President
Northrop Recreation Club

The night shift Toastmasters (No. 1398) had their big night last Saturday at the Western Club, when the organization received its national charter from Toastmasters International. A real live group, which holds its meetings at lunch on Thursdays, the night orators invited their wives and members of the four other Northrop Toastmaster groups to attend the ceremonies.

Joe Cribbs

★ ★ ★

More TM news—Toastmasters hold a distinction here at Northrop. We are the only industrial recreation club that can count five separate Toastmasters clubs, each with a separate charter. With new president Glen Jackson in the van, Norcrafter Toastmasters are; Number 212, Days; Number 1398, Nights; Toastmistresses Number 519; Northrop Toastmasters, Anaheim; and Northrop Toastmistresses, Anaheim. The Toastmasters is a real sharp item.

★ ★ ★

The Waltons around Plant One are calling Walter York, Sheet Metal Norcrafter, "Lucky" York . . . Several weeks ago Walter and several other Norcrafters went after catfish on a Colorado River jaunt—in the vicinity of Lake Ferguson. One of those catfish at least *this* long got away—and with Walter's gear! Forty dollars worth of equipment down the hatch . . . A month went by while York replaced the gear. Again the boys went fishing. Walter hooked on to a 7-pounder; when he got the thrashing fish aboard, there—wrapped around it—was his lost line, reel, and all! Things like that *do* happen to people you know!

NRC BOAT CLUB IN SPECIAL MEET MONDAY EVENING

NRC Boat Club members and guests will hold a special meet in the Clubhouse next Monday evening, November 23, at 7:30 to consider the possibility of sponsoring at least one Class sail boat in racing activities.

Special speakers Harold Eyestone and Frank Watson will be on hand to acquaint members with the merits of the Lightning Class boat, a 19-foot day-sailer which races with a crew of three.

Motion pictures, showing Lightning Class boats in the 1952 international races, will be a special attraction.

Eyestone is a former California District champion, and speaker Watson is Commodore of the California District, Lightning Class Association.

THE Northrop Scene BY DAY AND NIGHT

Nassau - - - in the Bahamas

NASSAU IN THE BAHAMAS—! AFMTC Norcrafters, through NRC, chartered a special Mackey Airlines plane and flew to the British resort city for three glorious vacation days. Norcrafters flying direct from Melbourne were—Verl and LaNelle Smith, Fred and Vivian Hertel, Christine Hertel, Jack and Dell Wells, Chuck and Marge Kerner, Andy and Bernadette Anderson, Ed and Shirley Cates, Dick and Zola Warner, Anne Shull, Willie Christiansen, Sally Hare, Jim and Lucy Mayes, Oley and Audrey Johnson, Lou Brennwald, Ed Munsey, Bill and Betty Anderson, Bill and Connie Van Ordstrand. Jocelyn Williams and June Manweiler flew from West Palm Beach to join the party. Trip was real adventure.

NATIVE MARKET, where craftwork is sold, proved popular to visiting Norcrafters. Here, Anne Shull, Analysis & Scheduling, tries palmetto frond pocket book for size. British sterling (pounds, shillings, pence) is the currency of the Bahamas, Norcrafters learned.

CASTING OFF for Paradise Beach are, from left, Vivian Hertel, Sally Hare, Andy Anderson, Christine Hertel, Bernadette Anderson, LaNelle Smith. Group stayed at Royal Victoria Hotel — famed for exotic tropical gardens, known to thousands of visitors.

VERL SMITH, chief, admires his wife's Nassau straw hat in open-air market. Norcrafters toured the island in rented Singer automobiles and carriages, sailed, shopped, relaxed on the coral sand beaches, and danced and dined in the outdoor palm-shaded terraces of the Royal Victoria. The vote is for a repeat weekend in near future.

FINISHED PRODUCT—! Mae Brown, Missile Guidance, left, and Genevieve Alden, Purchasing, smile proudly as upholstering is completed. Norcrafters still have time to take advantage of the last few lessons and would be able to start a small project. Next course to be offered in NRC Interior Decorating is class in draperies.

Repair Wear and Tear

RAT-A-TAT TACK—! Members of NRC Interior Decorating class, under direction of Lee Larson, right, get chairs ready for face-lifting. From left: Mae Brown, Missile Guidance; Evelyn Huset, Assembly; and Ruth Geller, Planning and Scheduling. Upholstery instruction began in September. Girls bring piece of furniture to the Clubhouse and leave it there until redecoration is completed. Club meets every Thursday, 7:30 p.m. Site is 175 N. Hawthorne Boulevard.

REASSEMBLY of wooden arms after upholstery job is completed is demonstrated by Martha McCormas (kneeling) and Rose Hanna. All lady Norcrafters, and wives and friends of Norcrafters, are welcome to attend classes. Instruction is free. For further information, call PA&S, extension 2784.

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, December 2, 1953

Palmdale Data Form

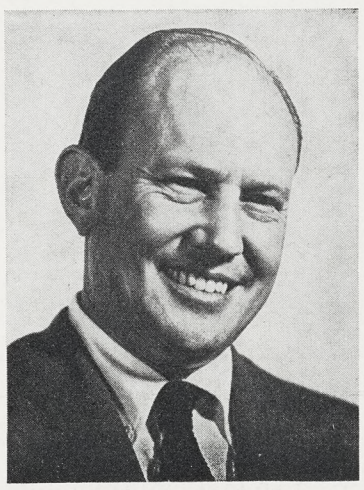
(See Tip-in, Page 3)

PALMDALE - - JET BASE

John R. Alison Named V-P for Administration

Northrop Aircraft, Inc., board of directors has elected John R. Alison as administrative vice-president of the company, General Oliver P. Echols, board chairman and president, announced last Thursday.

Vice-president Alison, who assumed his duties November 20, will be responsible for administering, from the corporate officer level, several company operations. These include the Anaheim Division, and Northrop Aircraft Industrial Relations, Public Relations, Flight Department, and Quality Control. He will also be responsible for Special Projects Coordination.



JOHN R. ALISON

Alison, 41, served as assistant Secretary of Commerce for Aeronautics, and as a member of the National Advisory Committee for Aeronautics. More recently he has been President of the Transit Van Corporation at Redwood City, California, a firm engaged in advancement of combined surface and air cargo transport methods.

A native of Micanopy, Florida, Alison was graduated in 1936 from the University of Florida with a degree in industrial engineering. He joined the Army Air Force and was commissioned in the regular Army in 1937.

In the spring of 1941 he was assigned to London as adviser to the R. A. F. on the operation and maintenance of American aircraft, and that summer he went to Moscow as an adviser on American aircraft available for lend-lease.

During 1942-43 he saw active service as a fighter squadron commander under General Chennault in China, and was credited with seven aircraft destroyed, six in air-to-air combat.

He holds the following combat decorations: Distinguished Service Cross, Distinguished Flying Cross, Silver Star, Purple Heart, Legion of Merit, Air Medal, British Distinguished Service Order.

F&S, Radar Norcrafters To Transfer

Skilled Hawthorne and Ontario Norcrafters — especially field and service, radar and radio, and supporting inspection personnel—will form the nucleus of the initial work force at the new Palmdale facility.

Norcrafters who are interested in transferring to Palmdale—particularly those in the classifications mentioned—can express their interest by filling out the information card tipped into this issue of the Northrop News on page three.

Important terms of the transfer policy were released late last week for publication.

Main feature of the policy governs the payment of a 30-day relocation allowance paid in accordance with the following per diem schedule:

$10.00 for the employee

$10.00 for the employee's wife

$ 5.00 for each additional member of the immediate family.

(Continued on Page 2)

ADMINISTRATOR FOR PALMDALE

Tom McCracken, announced recently as the base administrator for Northrop's Palmdale facility, has a long background of experience in aviation.

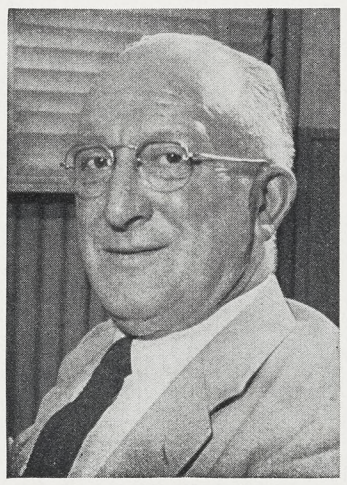
Born in Scotland, where he received his engineering education, McCracken worked with Handley Page Aircraft, Westland Aircraft, and De-Havilland Aircraft in England.

He joined the Industrial Engineering division in June of this year, and in September was assigned to Ontario as assistant base administrator.

Prior to functional operation of Palmdale, McCracken will continue in his present capacity.

W. H. "Bill" Renison has been appointed coordinator for Palmdale, and will coordinate all matters affecting the Palmdale facility for the Manufacturing office. An aeronautical engineering graduate of the University of Michigan, Renison also has wide experience in aircraft manufacturing, engineering, and administration.

In taking care of administrative services for Palmdale, Renison will work out of Vice-president K. P. Bowen's office.



Tom McCracken

Flight Base Soon Ready For F-89s

The plans and work of two years will bear fruit soon, as Norcrafters begin to man the new Palmdale facility now being completed for Northrop.

Latest developments in the Palmdale story indicate that the long-planned move is swiftly approaching reality.

First of these was the announcement from K. P. Bowen, vice-president, Manufacturing, of the appointment of Tom McCracken as base administrator of the Palmdale facility.

Second move (see story this page) is the request of the Industrial Relations division for the return of information cards —included in this issue—from Norcrafters who are interested in transferring to the new facility.

By next April, Vice-president Bowen says, there will be a vanguard of several hundred Norcrafters at Palmdale. Eventually the operation will require upwards of 1500 personnel, according to present plans.

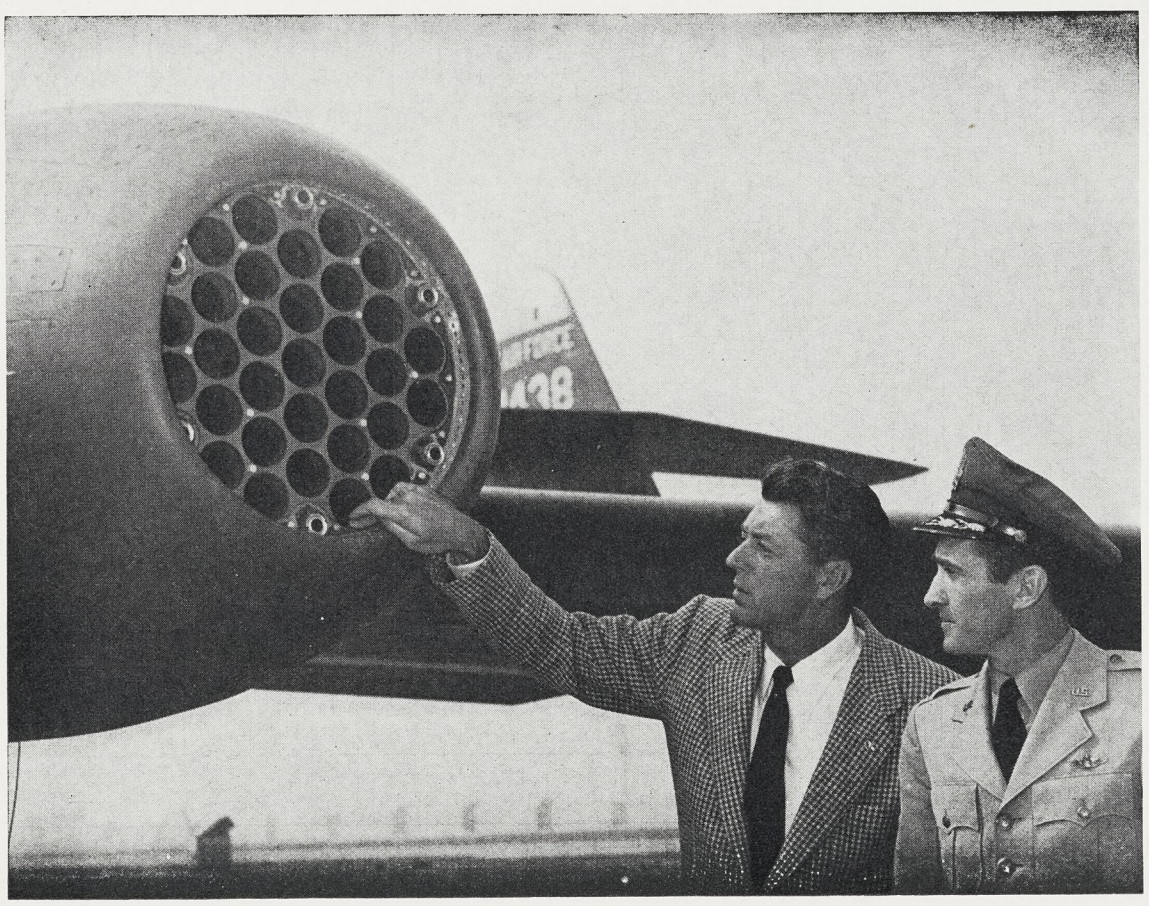
Thus Norcrafters will join several hundred other aircraft builders who have been working there previously for other firms at the huge Air Force development. Palmdale will be the jet test center of the AF when operations get into full swing.

Although a few Norcrafters have been working on the facility for several months past—supervising construction and laying plans for movement of personnel there—first of the regular occupants are guards, who are now beginning to patrol the area on night and morning shifts.

Buildings are expected to be completed in January, and the facility may be complete with all equipment, except that to be

(Continued on Page 2)

Scorpion Armament



ROCKET ROOST—! One ace shows another the details of rocket pod on D-series Scorpion. Norcrafter test pilot Bob Love, left, points out Scorpion armament to Colonel Royal N. Baker, who was on official visit to Northrop. Love, recently promoted to Major in the Air National Guard, shot down seven MIGs in Korean service; Baker was credited with an even dozen.

General Salary Increase Granted to Norcrafters

A general increase of five per cent in individual salaries, effective November 23, was announced last week, closely following news of the general raise for hourly-paid Norcrafters.

In addition to the five per cent raise—which will increase the maxima and minima of salary rate ranges by that amount—salaried personnel will have 80 cents of the present $1.20 cost of living bonus incorporated into their rate ranges.

The remaining 40 cents weekly cost of living bonus will be included in paychecks until February 1, 1954, at which time it will be discontinued.

The salary raise will be reflected for the first time on pay checks distributed next Friday, December 4. Pay checks for hourly personnel showed the hourly raise for the first time last Friday, the hourly increase having been effective on November 16.

BBSF

(See Page 6)

Last Modification F-89 On Way Out Flight Door

There was good news from the assembly line last week—the last modification airplane was nearing the end of the line, and henceforth Norcrafters could gear their efforts to rolling out rocket-armed D-series Scorpions.

To the thousands of hard-working Scorpion builders who have been responsible for the success of the program—which is now about a year old—there were words of high praise.

The program is being completed on schedule, Vice-president Kenneth P. Bowen, Manufacturing, said.

"What is more," he added, "we've managed, at the same time, to move ahead of contract schedules on the D program!"

Bowen praised both the planning and the execution of the modification program, pointing out that the planning of the operation simultaneously with a production program in the same plant was a remarkable achievement.

"To be ahead of schedule on the F-89D program, despite all the extra effort poured into the modification, is indeed remarkable!" he repeated.

Bowen also lauded the contribution of Ontario Norcrafters, and called their achievements "outstanding," despite difficulties encountered in radio and electronic installation.

"Supervision and personnel at Ontario may well be proud of the part they played in helping meet our contract commitments," he stated.

Bowen went on to say that tail surfaces had been transported to Ontario to introduce greater flexibility in utilizing Norcrafter talents there. He expressed the hope that other work might be transferred there also to fill any possible vacant areas which might develop.

The modification program was a tremendous exhibit of Norcrafter cooperation, beginning with the first efforts to obtain materials necessary for the fix. Primary need was the replacement of wing attach angles.

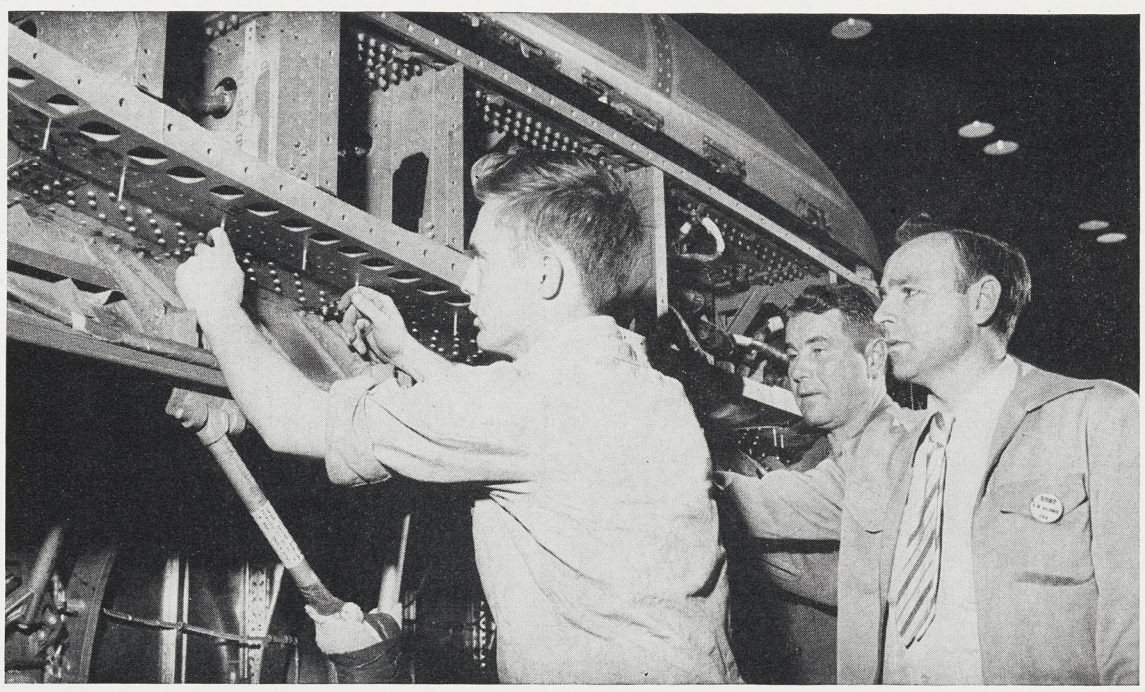
By January of this year, the first modified wings reached the assembly line, which astute planning had converted into a double-purpose assembly operation—one for production of the D-Scorpion, and the other for modification.

As the program gathered impetus, ingenious suggestions from Norcrafters helped to speed the task. One of the outstanding was the duplicator drill fixture, suggested by Tom Polliard, Machine Shop, which simplified the job of duplicating hole patterns on new attach angles. The idea won Tom a $1000 Suggestion Award.

At the end of February the first of the modified Scorpions took off from Northrop Field for Ontario; by April F-89 aircraft were on duty in the country's defense program, and word came back from a squadron C.O.: "I have never flown aircraft that performed better . . ."

Meanwhile, D-series production rolled on, first delivery being made in April. Coincident with the delivery it was announced that all Scorpion "D's" coming off the assembly line were 100 per cent shop complete.

Heartened by these visible results of their intense effort, Norcrafters continued to pitch in until—with the installation of the last attach angle last week—the program stands virtually completed—a tribute to every man and woman in the company.



NIGHT SHIFT NORCRAFTERS on mod line put last attach angle into place. Working on operation is R. V. Buckbee; watching happy event are Leadman B. E. Rodaway and S. M. "Skip" Baldwin, foreman, nights. With last airplane modified in year-long program, assembly line Norcrafters can now devote entire efforts to production of D-series.

Palmdale

(*Continued from Page* 1)

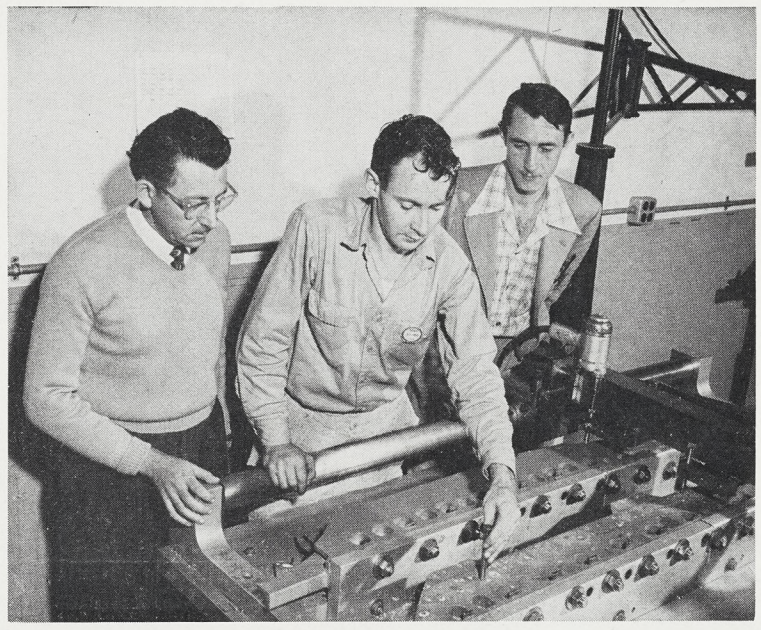
transferred from Ontario, by March 1.

Disassembled airplanes for training purposes will be trucked to the new operation beginning in April; and with the completion of taxiways between Northrop buildings and runways in May, first Scorpion flights to Palmdale will begin shortly thereafter.

Because the nucleus of the work force at Palmdale will be composed of Norcrafters now working at Hawthorne and Ontario, those personnel interested in transfer to the new base are urged to turn in the completed information forms as soon as possible.

G M W

(See Page 8)



LAST ATTACH ANGLE for modification program is on drill fixture for drilling of hole pattern by H. F. Dorey, Department 5587. Foreman Leo Sacks and Chuck Hohn watch the operation. From here attach angle went to other department Norcrafters on night shift, who installed it on airplane (see picture above). Fixture idea won Tom Polliard $1000.

Transfers

(*Continued from Page* 1)

The allowance begins on the date of permanent assignment to Palmdale, and will be paid for 30 calendar days. (Permanent assignment begins on the day the Norcrafter reports for work at Palmdale.)

Moving expenses, including packing, crating, and insurance—up to a maximum of 6,000 pounds—for the Norcrafter's household goods will be paid by the Company directly to the moving company.

In addition, the Norcrafter will receive mileage at current rates from his present location to Palmdale for one round trip.

The relocation allowance will not be paid to personnel hired in the Palmdale area, but will be limited to those skilled personnel transferred from Hawthorne or Ontario.

Norcrafters who fill out the information card in this issue will note that it is an unofficial form which is not to be considered as formal application for transfer.

The form is being used for information purposes; from the Norcrafters who return the form, a number will be selected for transfer. They will be contacted by the Transfer section for interview, and will then be requested to make out formal transfer papers.

Those desiring transfer need only to fill out the form; sign it; and either deliver it personally, or mail it in sealed envelope to: Personnel Department (4220); Plant One, Mail Zone 22; Attention Transfer Section.

Distinguished Visitor

U. S. SENATOR Ralph E. Flanders, Vermont, of Senate's Armed Services Committee, visited Northrop recently on official call, accompanied by Wallace Engle, staff member of committee. At luncheon tendered the guests were, from left: John B. Clark, director of Industrial Relations; Vice-president Edgar Schmued, Engineering; Senator Flanders; General Oliver P. Echols, board chairman and president; Engle; Vice-president John Myers; Vice-president Kenneth P. Bowen, Manufacturing. Senator Flanders, who had toured number of aircraft plants throughout country, was impressed with good housekeeping in Northrop factory; authorized the News quote: "It ranks with the best in the nation."

Northrop News
Vol. 12 Northrop Field, Hawthorne, Calif. No. 10

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JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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MAT CON COMMITTEES

MUNSEY—PATRICK COORDINATOR

Announcement of new night shift Safety-Conservation committeemen, and the appointment of a new coordinator for the Patrick conservation operations highlight recent Mat Con developments.

The new conservation coordinator is E. H. Munsey, who is supervisor of Industrial Engineering at the missile test facility. Before the Munsey appointment Larry Donoghue had been acting as chairman of the group, and his activity in that capacity drew praise from Conservation and Safety departments.

The night list follows:

SUB-ASSEMBLY (Les Strong, chairman): — F. R. Frayer (5165); A. T. Johnson and Norman Tucker (5373); W. G. A. Lauer (5411); C. L. Black (5504); Etta Avery (5507); S. O. Richardson (5517); G. W. Hawker, W. H. Cleave, and Velma Allen (5518); Paul Koralewsky (5524); Ray Cox (5534); Mary Munoz (5544); W. C. Acord, Sam Dimitry, and Lila Lee Booker (5585); C. A. Bailey (5586); G. B. Hayes (5587); O. E. Reimers (5588); Fred Masters (6382); J. C. Fenwick (7230); Sam Scott and Melvin Wilkinson (7310).

SHOP FABRICATION (Woody Jones, chairman):—C. G. Rude (5165); W. J. Gaynor (5524); E. R. McIntire (5553); Verner Downing and Marvin Cooper (5501); Alejandro Rico and Olis Boyett (5502); Donna Beck, Frank Angus, and L. S. Morris (5503); J. D. Todd and Rose Marie Sugamele (5508); Pandora Mann and Fred Henwood (5509).

TOOLING (Fred Griffin, chairman): — Purdy McKinley (5161); L. S. Pekarcik (5221); R. A. Reamer (5231); L. N. Black (5241); Frank Koch (5354); Clarence Struthers (5406); Clarence LaMere (5411); L. J. Morr (5437); E. J. Kneefe and K. E. Underwood (5445); Robert Browne (7220).

PLANT THREE (Frank Brannon, chairman):—A. J. Grabski (5163); Wallace Townsend (5373); J. J. Filas (5411); Henry Brinkman and Ken Parker (5508); Al Johnson and E. E. Taylor (5510); Ray Stoddard (5515); Ted Jenks (5520); R. C. Brown (5589); R. A. Perrine (5506); A. A. Starr (5819); E. M. Beck (7310).

E. H. MUNSEY

SPECIAL WEAPONS (Tommy Blair, chairman): — Vern Jessen and Boyd Hyatt (5238); J. R. Chirch (5411); R. A. Mordue, M. L. Hodnefield, and Frances Smith (5620); Edith Smith and Ray Forbush (5621); Shirley Spalding (6150); J. R. Russell (6720); Clair Hiller and Alexander Leitch (7520); Buddy Carlson (5931); H. S. Carrure, L. J. Robinson, and S. A. Collins (5920).

MATERIEL (Horace Dutcher, chairman): — Lois Davis (6230); Viola Lara (6250); Henry Arizmendi and R. L. Hawthorne (6325); Lyle Olson, L. M. Jones, and Ervin Cook (6355); C. H. Taylor and Mildred Roth (6378); and J. H. Lindenkohl (7100).

MORNING SHIFT (Jack Miller, chairman):—Sergeant G. J. Arneson (4120); Dan Gravlin (5161); Bob Weyrauch (5163); Bill Steigleman (5164); J. E. Connell (5241); Jewel Bennett (5508); R. J. Noday (5509); C. W. Mommer (5530); Earl Berman and Herb Butler (5587); Wilmer Wilshusen (7310).

Model Shop Good House Champion

A unique program of encouraging 100 per cent participation in the competition has helped Plant Three's Model Shop (Department 5538) to win the Factory division's Good Housekeeping championship for October.

The plan, which was originated by the department's night shift Norcrafters, involves the appointment of a coordinator for the program from among non-supervisory personnel. Each coordinator is responsible for housekeeping for two weeks.

That the program has succeeded is proved by the top standing won by 5538 in the October running. The Model Shop nosed out the Wood Shop (Section 1), Electrical and Instruments (Section II), and Missile Assembly (Section III) in taking the October award.

The plan has worked out even beyond expectations, and has encouraged Norcrafters in the department to volunteer a liberal supply of slogans, suggestions, and even poems—all calculated to better the department's housekeeping rating.

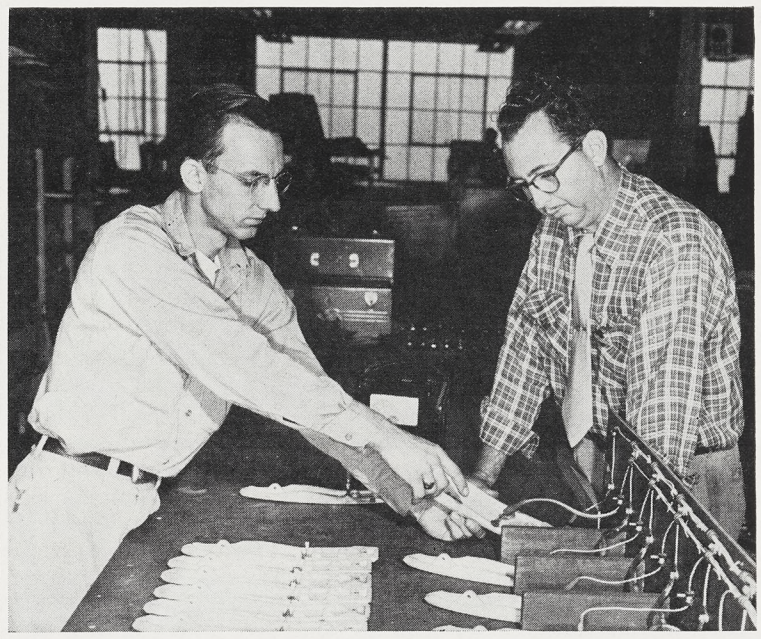
Art Buesch suggested "Safety habits are maintained best by good housekeeping"; Jim Fox came up with "Good safe habits and steady nerves; that's the way a Norcrafter serves".

And an anonymous contributor, long before the October competition results were announced, called the turn: "Keep it clean and in its place; help us win the neatness race".

Night shift department clerk "Ginger" Arkill is credited by department Norcrafters with much of the success of the program. It is she, they said, who prints the slogans, does the paperwork, and keeps the program posted on the bulletin board.

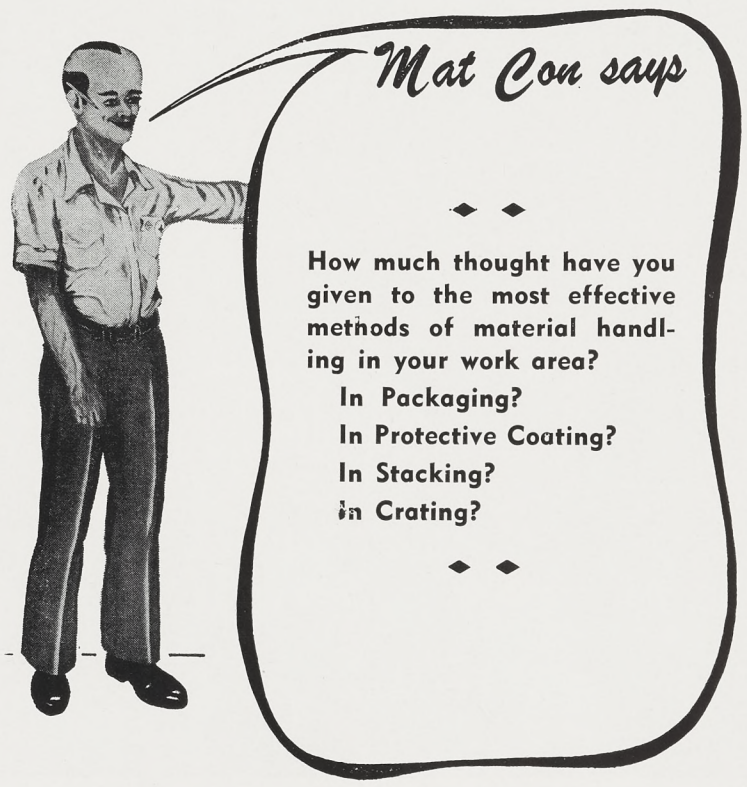
GOOD HOUSEKEEPING champ for October in Factory division program was Model Shop, Plant Three. Honor poster was presented to department for display; at award ceremony were: John Breneman, assistant factory manager, nights; Don Swift, assistant superintendent, Engineering Lab Services; Frank Weidenkofer, department supervisor; Bob Lloyd, general superintendent, Manufacturing Operations Administration; Gary Hard, coordinator of program; Bill Morgan, factory superintendent, nights; Bob Brumpton, department supervisor, nights; Chuck Sexton (5538); and Frank Brannon, assistant superintendent, nights, Engineering Lab Services. Department used unique plan; see story this page.

Conservation Suggestions Pay Off In Cash Award



MAT CON ASSIST that won George Lewitzki, Vendor Assembly Rework, a Suggestion Award was suggestion to test numbers of rocket pod doors, instead of single pieces. Here he shows Durwell Davis, foreman, how his method is used to heat several pod doors to prepare them for heat resistance readings. Should production require greater numbers of doors, George is ready to enlarge the test box to save even more time. Good ideas are often simple ones, Mat Con notes.

STANDARD PARTS Norcrafter Frank Melton contributed to conservation with suggestion of simplified method to clean frost from rivet boxes. Ed Hurd looks on as Frank cleans ice box with alcohol, eliminating need of scraping interior. Submitting the idea to Suggestion Award Plan, Frank was rewarded with cash for the suggestion—and has pleasure of knowing he is building "More AF Per Dollar."



FIRST FLIGHT of Old Nell was attended by ground crew, flight crew, and engineers shown above. All but two of group are still Norcrafters. First row: J. F. O'Connor, Jack Bean, Mel Mohler, Max Wenzl, Doug Factor, J. J. Quinn, C. J. Gilbert, Jim Tway, Bud Bowser, and Eddie Elg. Back: Lew Staehle, Frank Andrews, Gene Johnson, "Hank" Hancock, Scott Johnson, Paul Nippert, Dave Selegue, Fred Cunningham, Ernie Felis, Jean DePue, Les Baxter, Leo Grant, Hal Kennedy, Kenny Hedge, E. L. Richards, Ed West, and E. V. Chandlee. Date was June 27, 1950—162 flights later N-2002 (YF-89A) was retired from flight duty, but continued in ground service. She will end her days in still further service.

"Old Nell", Symbol of F-89 Reliability, Leaves Muroc For New Fields

She was a real lady among airplanes.

That is the consensus at Edwards regarding N-2002 — first of the Scorpions as we know them—which last month was hauled away from Muroc.

The lady was fondly called "Old Nell" by her pilots and by the crews who took care of her. This YF-89A earned her reputation—in 162 flights—as one of the best flying and most willing rain-or-shine of them all.

And even after her flying days were done, Nell served the company and the Air Force well, as a powered ground test bed for anti-icing system tests, ground vibration surveys, cooling tests, and others.

It is only poetic justice, Edwards Norcrafters point out, that even now she will extend her days of activity, and will not suffer the usual "boneyard" end to aerial work horses. It is understood that she is going to the CAA Research Center at Indianapolis as study material for fire and crash investigations on high-performance aircraft.

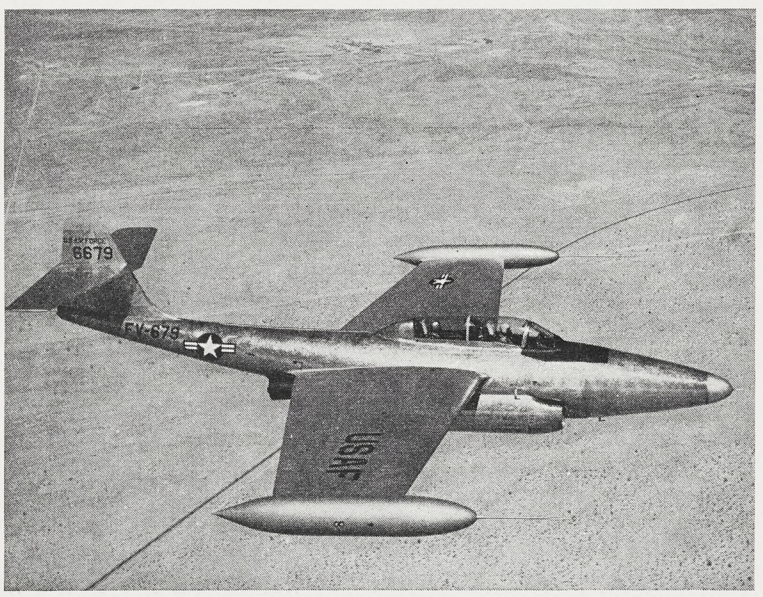
Old Nell first arrived at the Edwards facility in June, 1950. She made her first test flight with J. J. Quinn at the controls.

The earliest power plant test programs for J-35 engines and after-burners were performed with Old Nell. Flutter and buffet tests followed, and other test programs on performance, structural heating, cabin conditioning, fuel vent and supply, stability—to mention a few.

And she earned her nickname as a tribute to her reliability.

Retirement from the blue came only because it was not economically feasible any longer to operate the airplane series conglomeration she had become. Although she retained much of her XF-89 ancestry, she had assumed, also, many extra fittings from her descendants.

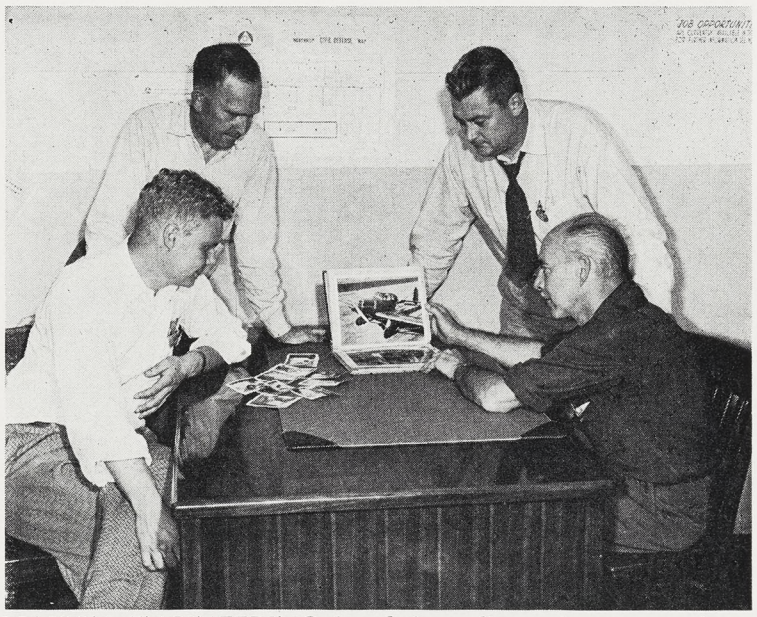
Muroc Norcrafters came to feel a kinship to this fine airplane—as they do for many of the test aircraft they use—and thus it was that they asked for an accolade to Old Nell in the pages of this newspaper.



DURING initial series of flights, Old Nell looked like this. Tests then under way resulted in jet wake fairing, canopy fairing, extended tip tank cone, and other changes visible on the Scorpion today.

LAST SIGHT of Old Nell to Edwards Norcrafters showed her being towed across lake from ramp at Northrop facility. Silhouetted in foreground, watching towing operation, is Jim Flint. Tail of new Scorpion overlooks scene, too, at top of photo.

Hot Rods, Old Airplanes Both Have Their Backers



LIAISON ENGINEERING lunchtime discussion on engines, with Gordon Potter and Neill McGaffey, seated, as centers of discussion. Harry Kline, Jack Shannon, standing, join talk.

There may be a variety of subjects bandied about in lunchtime discussion by Plant One Liaison Engineering Norcrafters, but there are two good reasons why the subject is more than likely to be engines.

First of these is the presence of Gordon Potter, liaison engineer who built a "hot rod" engine which set two unofficial world's, and five American, records at Bonneville recently.

Second reason for the likelihood of engines as a subject is Neill McGaffey, also a liaison engineer on the F-89, whose unique low-wing monoplane for a short time held promise of being "the poor man's aircraft".

Gordon tells of the speed at which his engine propelled a streamlined hotrod at the international speed trials—246 miles per hour!

It's a 450-horsepower Chrysler engine which uses nitroglycerin fuel additive. Gordon worked on it with able assistance from Nick Gansemer, inspector in the Machine Shop.

The car in which the engine performed so well at Bonneville belonged to another friend, Chet Herbert, who had the body built and the power installed within the week preceding the trials!

Entered in Class B, streamlined, the "Beast" performed beyond expectations and marked up the fastest time recorded at the entire meet.

Neill McGaffey is an oldtimer in the airplane business, having learned to fly in 1929. He ran a flying school and aircraft repair station between 1929 and 1934, and in the latter year became interested in promoting an entry into the search for a low-priced airplane.

His aircraft, the "Aviate", was, he thinks, one of the first all-metal small airplanes. It looked very much like the Lockheed P-38 of World War II, with twin tail booms.

The Aviate was a unique airplane, utilizing for power a Ford V-8 engine. The nose, indeed, was the well-known front end of a Ford V-8! It was a two-place job with a top speed of around 115 miles per hour and a range of 450 miles; and it gained hundreds of column inches of publicity in the press of that era.

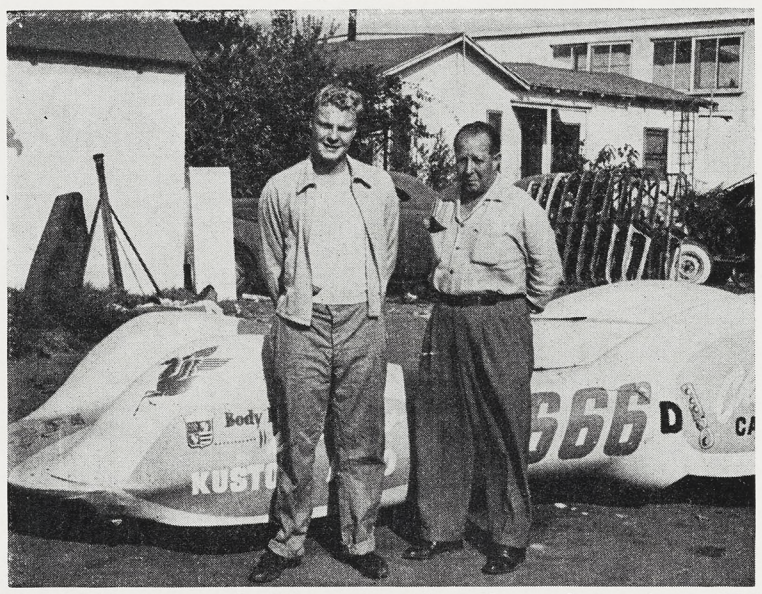
Unfortunately, Norcrafter McGaffey's brain-child came along during the depression, and financial backing was almost impossible to find.

McGaffey previously worked for Northrop for two years on research with Turbodyne; left here for Radioplane 10 years ago; and retired in 1946.

The inactivity was not for him, however, and in May of this year he came back to the business he likes best.

"I think sometimes," he mentioned, "of the souped-up Chevvy I built back in 1933. It did better than 100 miles an hour, which was real good for those days.

"Imagine! here my airplane had a top speed of 115 miles an hour, and Potter builds a car engine that carries a car along at more than twice that speed!"



HELPING Potter build engine that drove hot-rod at 246 m.p.h. was Nick Gansemer, right, Machine Shop inspector. "Beast Number Four", streamlined hot-rod, is shown.

Invention Licensed

ANCHOR NUT HOLDER designed by Howard V. LaRue, Tool Design, is now being manufactured by Los Angeles firm as result of exclusive license granted to Northrop through Associated Products division. Used in assembly, holder was turned over to Company by LaRue under terms of liberal Northrop Invention Assignment Agreement, by which he shares in royalties derived from licensing or sale.

ART SHOW VOTE BEGINS

PLANT THREE NORCRAFTERS BALLOT

Norcrafters at Plant Three are today casting votes for their choice for Sweepstakes award in the Seventh Annual Art Show.

Some 125 paintings were entered in the 1953 Northrop Purchase Prize Art Exhibit by Norcrafters and their families. Paintings have been exhibited in the Plant Three cafeteria since Monday, November 23, and will remain there until Friday, December 4.

Hanging dates for Plant One Cafeteria are December 7 through December 18, with lunch-time Sweepstakes voting scheduled for Friday, December 11. All Norcrafters are entitled to one vote; ballots are distributed at the Cafeterias.

The jury, made up of a panel of four well-known Southland artists, will select first, second and third purchase prize winners along with seven honorable mentions on December 8. Winners will not be announced, however, until after Sweepstakes voting has been completed.

Serving on this year's jury are Vic Houser, sculptor and painter of note; Inar Petersen, noted mural painter and presently second vice-president of the California Art Club; Miss Lola Holton, retired art teacher and current recording secretary of Arts at El Camino.

NRC Softball Awards Ceremony

"WINNERS" of the open Black Bat Tourney were the Black Batters. Manny Machado, manager, receives big black bat of balsa wood from Joe Carver. Bat, which carries names of "winning" teams of previous years, remains property of Black Batters until Tourney next year—.

NRC MERIT AWARD — Bobby Ray, 10-year Norcrafter of Maintenance, third from left, receives 1953 special NRC award for his contribution to the spirit of recreation and sportsmanship. Offering congratulations, from left, are: Paul Wheeler, Joe Carver, and Eddie Truax.

PLANT CHAMPS—! Tom Blair (center), manager of Department 5620, NRC Softball champion team for 1953, receives trophy from NRC Vice-President Joe Carver. Witnessing ceremony, from left, are: Paul Wheeler, Softball comish; Larry Baird, head scorekeeper; and F. J. "Mac" McLarney, head umpire. Trophy presentation was made at annual buffet dinner-dance held at NRC Clubhouse on Saturday, November 21, for softball players and their wives or dates. Music was supplied by Byron Harkins and his band. Some 95 trophies were awarded during the ceremony to various teams active in 1953.

NRC Dolls Still Available In Annual Competition

Dolls for outfitting and entry in the Annual NRC Doll Dressing Contest are still available at PA&S offices throughout the plants, according to Hilde White, Women's Activities coordinator.

Dolls will be entered in two divisions—the most beautifully dressed and the most uniquely dressed. First prize in each will receive a $25 Savings Bond; second, a $15 gift certificate; third, a $10 gift certificate.

Deadline for dolls to be returned to PA&S is Friday, December 11.

The annual competition, in addition to spurring the ingenuity of lady Norcrafters, serves as a wholesome and charitable Christmas-season gesture to underprivileged children. The dolls, after judging, are delivered by NRC representatives to some local children's organization as Christmas gifts.

Thus, none of the midnight oil burned during the course of the dressing is wasted!

SANTA TO MAKE ANNUAL VISIT TO NRC JUNIORS

Sunday, December 20, will be a red-letter day for Northrop Juniors, for word has been received from the frozen North that Santa Claus has accepted the NRC's invitation to attend the annual Juniors' Christmas party.

The NRC Clubhouse, 175 N. Hawthorne Boulevard, will be the scene of Santa's visit. Last year's party was the first held in that location.

The capacity crowd that called on Saint Nicholas last year will recall that Santa distributed gifts to the youngsters, aided and abetted by his favorite clowns, and by commissioners, representatives, and other NRC folk.

The process will no doubt be repeated on December 20, the juniors are advised, in being reminded by NRC to circle the date on their calendars.

More details will be forthcoming as correspondence continues between the NRC and the North Pole.

INFORMATION ON ADULT TRAINING AVAILABLE HERE

With first semester classes in vocational education nearing an end, Norcrafters who might wish to participate in the classes to begin in January are reminded by Industrial Training department personnel to voice their preferences for evening classes.

A number of schools in the vicinity offer valuable training in a number of subjects allied with aircraft. These are located in Centinela Valley high schools, in Los Angeles schools, Westchester, and Harbor JC, to mention a few.

Almost all of them, E. R. Means, Industrial Training, points out, are willing to establish new courses provided that sufficient interest is manifested in them. Courses once started will be taught as long as a specified minimum attendance is maintained.

Norcrafters interested in vocational training classes may obtain further detailed information by addressing their inquiries or suggested courses to: E. R. Means, Department 4240, Plant One, Mail Zone 20.

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

REFRIGERATOR, Philco, 6 cu. ft., excellent condition, $65, J. A. KELLY, PL 5-8415.

HUNTING DOG, half blue-tick hound, black and tan, bred from good hunting stock, male, four months old, $25, WALLY HENRICH, FRontier 4-5412.

ELECTRIC SHAVER, new Norelco, single rotary head, with leather case, $10, JIM CELONI, RE 1-4496.

WHEELCHAIR, Everest-Jennings, good condition, $40 or best offer, GENEVIEVE ALDEN, OR 8-4822.

FUR COAT, dark, full length, excellent condition, medium size, $50; white, electric BATHROOM HEATER, $3, J. M. NEWLIN, OSborne 6-9178.

BUICK, 1941 special sedan, mechanic's special, excellent tires, radio, heater and body, motor needs work, $60. E. W. TROXEL, PL 4-4556, call after 5:00 p.m.

CAMPING CAR, built on International pickup chassis, sleeps 2, butane stove, refrigerator, table, etc., ideal for fishing, camping, week ends, asking $200, R. BRUMPTON, OS 6-5253.

DODGE, '41 sedan, radio and heater, good transportation, $150, E. F. LOWEKE, OSborne 6-0656.

TRUNK, large, practically new, $10, ANTHONY PICCIRELLO, TW 8841.

PUPPIES, 3 weeks old, boxer, mix, 5 females, 4 males, all black with white feet, chest and tip of tail. Will hold till Christmas, excellent for the kids, $5 each, GEO. ARNOLD, OS 6-6062 after 4:00 p.m.

GAS HEATER, large; DISHWASHER, G.E.; MAPLE CRIB; PLAYPEN; BABY STROLLER; TEETERBABE; YOUTH BED; CAR-BED and SEAT combination; SHOO-FLY ROCKER HORSE, like new; BEDS, 2 twin Hollywood; BED FRAMES, 2 twin size, wooden, A. L. ROSS, FRontier 2-3669.

EARRINGS for Christmas gifts, three styles handcraft silver hoop earrings, choose from photo, seven days delivery, write TAM, Box 368, Pacific Palisades.

DINING ROOM SET, Duncan-Phyfe, with credence, excellent condition, also has table pad, $75, W. D. VON PRILLWITZ, ME 4-7276.

BEDROOM SET, modern five piece solid Philippine mahogany, in excellent condition, asking price $100, J. E. BLAIRE, PL 1-7002.

IRONER, Bendix table top, '49 model, new condition, $130, HARRY TENNYSON, NE 8-4757.

FORD, 1936 tudor, excellent condition, rebuilt motor, see to appreciate, ask for Skip, AT 2-8342.

SAW, table, Sears best 10", 1 HP, extras include steel bench, extra blade, table extensions, etc., new, $155, LARRY LAUER, OR 1-3798, days.

REFRIGERATOR, Westinghouse, 11 cu. ft., 5 years old; RANGE, excellent condition; must sell both together, cash, $150, LA VAUGHN P. KIRK, OR 7-0426.

TRAIN, American Flyer, perfect passenger train, replica of Burlington Zephyr, engine, three cars, lots of track, silver colored, all aluminum, no transformer, $15, H. E. BURNSTINE, DIckins 3-2357.

DINETTE SET, six piece including mahogany top buffet and table with four leatherette upholstered chairs, $35, B. BINGE, FR 5-4358.

LOT, Harbor City, 40' x 150', sewer, $850 cash, L. MOIR. Reply in writing to Northrop News, Box 1051.

LOTS, Lake Tahoe, 50' x 150', private beach, your choice of 5—level, wooded, water, streets and electricity, 10 blocks from lake in Tahoe Cedars tract, $600 each, L. MOIR. Reply in writing to Northrop News, Box 1052.

BABY WONDA CHAIR, combination stroller, chair with eating or toy tray, shopping basket and table, new, will sacrifice for $45, J. H. LESHNER, DU 2-5978.

SLIDE RULE, Pickett 1000 orto phase duplex, with instruction booklet, excellent condition, $9; CAMERA FILTER, Polaroid series VI, brand new, $5; J. E. BUTLER, OR 2-1570.

MODEL AIRPLANE, Thimble-Drome, ready to fly, never been used, a super Christmas gift, retail price $19.95, make offer, L. J. ALBIN, LOrain 6-1546.

FOR SALE

CAMERA AND ACCESSORIES, Voightlander Bessa, very good condition, $50, ROBERT MASON, FRontier 4-5525.

BICYCLE, girl's, 20 inch Schwinn, $25, H. M. BERGSTROM, L.B. 39-1069.

BEDROOM SUITE, walnut, chest of drawers and bed, $40, H. M. BERGSTROM, Reply in writing to Northrop News, Box 1056.

SOLID STERLING SILVER consisting of 4 place settings, 7 pieces each, valued at $145, will sell for $75, pattern "Castle Rose"—open stock, may be added to at any time, stock list included, C. E. TURNER, FRontier 2-6770.

REVOLVERS—38 Colt 2" banker special, like new, for $40, sells for $60; 38 Colt, 6" barrel, target sights, ten point grips with "Clamshell" holster, $45, excellent condition, V. E. LONG. Reply in writing to Northrop News, Box 1063.

JACKET, man's size 46, wool lining and fur collar, teal colored, never been worn, "Buck Skein Joe," $15, G. O. KEENAN, FR. 2-1868.

SHAVER, "Sunbeam" electric, brand new, retail $27.50, will sell for $19.95, P. P. MARTY, VE 8-8420.

RANGE, 1950 Kenmore electric, push button, full size, excellent condition, cheap, make offer, CLIFFORD B. VIRAK. Reply in writing to Northrop News, Box 1057.

TV SET, 7" portable Sentinel, $20; children's metal SWING AND SLIDE SET $35, GERRY ROBERTS. Reply in writing to Northrop News, Box 1058.

PATIO FURNITURE, redwood, consists of 1 sofa, 2 chairs (tilt back type), 1 ottoman, end tables and coffee table to match, $50; redwood picnic table and 2 benches, $15; GERRY ROBERTS. Reply in writing to Northrop News, Box 1059.

DIVAN, 3-cushion, and CHAIR, good condition, good buy, $45. MARY BLAUGH, ORchard 2-3576.

TELEVISION, 7" portable, $20, WM. RABORG, TO 9-0068.

MOTOR MANUAL, cost $7.50, will take $3.50, in blue cloth binding. Up to and including 1951 autos, DONALD J. BURTCH, NEwmark 2-4527.

OLDSMOBILE (6), 1947, 4 door, excellent condition, new tires and battery, best cash down or trade, balance $340, bank terms, "KIRK," PL 5-6610.

WASHING MACHINE, wringer type, good condition, your price, BEA WAND, OS 6-5061.

FORD, 1931 Model "A", roadster, HERBERT DEWOOTTEN, L.B. 41089.

CHEVROLET, '51, 4 door, clean, one owner, radio, heater, new whitewalls, $1075, F DUPRIEST, Long Beach 93019.

WASHING MACHINE, Kenmore, good condition, good buy for the price, $45, MARIE VAIL, FR 9-2655.

PIGEONS, racing, very reasonable, GENE GRIFFIN, FRontier 4-9993.

DINING ROOM SET—6 chairs, table and buffet, dark wood with light inlays—buffet has 3 drawers and 2 side compartments, chairs have red mohair seats, $75, HAROLD SENTER, BR 2-7781.

NASH Super 600, late '47 model, 4 door sedan, clean and in good shape, $500, part or all down, J. D. DAVIS, PL 1-5049.

SEWING MACHINE, rebuilt, portable electric, Singer, with attachments, model AG 108337, in perfect condition, $60, DOLORES S. FENN. Reply in writing to Northrop News, Box 1071.

LIVING ROOM SET, 2-piece, dark blue, Kroehler mohair, $45, VELMA ELLIS, Long Beach 5-0052.

FORD, 1939, 2-door deluxe, radio and heater, very clean, good throughout, $200 J. DIVIN, OS 6-2076.

LIVING ROOM SET, modern 2 piece, dark green frieze, excellent condition, 1 four drawer chest, 1 five drawer chest, your offer if reasonable, GENEVIEVE G. ALDEN, OR 8-4822.

TYPEWRITER, Remington Quiet Riter portable, new, price $76, sells retail for around $110, phone ORchard 2-5409 at any time, ANNE K. BROWN.

TYPEWRITER, Hermes baby, in excellent condition, $40, T. J. ESTERBROOK, OS 6-8444 after 4:00 p.m.

FREEZER, 12 cu. ft. Philco, 1 year old, like new, $200, RUTH JAYNE, PL 5-6659.

FOR SALE

FORD, 1934, 2 door sedan, new tires, new spark plugs, new seal beam lights, real good motor. $60, MAURICE CHILDS VErmont 9-0625.

CEDAR CHEST. "Lane", beautiful modern walnut, perfect condition, retail price $75, will sell for $30, DON WEAVER, OS 5-2331.

FORD, 1947, 4 door deluxe sedan, new seat covers, good paint, $395, PAUL HOMER. Reply in writing to Northrop News, Box 1066.

ROOFING, mica surfaced, 7 rolls, 65 lbs. weight, mineral stabilized asphalt, class C (fire resistant), 1½" nails, no lap cement, $2.85 roll, will sell for $1.85 roll; with five gallons lap cement, $16 all, J. HERRINGTON. Reply in writing to Northrop News, Box 1067.

WASHING MACHINE, Bendix automatic, gyromatic, non-bolt down, cost $300, almost new, sacrifice $150, H. HELLER, ARizona 3-6393.

BED, double, complete, $25; COUCH, new slip cover, $25; RUBY PIERCE, VE 8-9326.

TRAILER, 2 wheel, with hitch, new tires, no box, $10, C. ENGSTRAND, OS 6-6463 after 5 p.m.

MOVIE CAMERA, 16mm, 100 ft. roll type, with 3.5 lens and case $25; WOODS, set of three Wilson-Sam Snead, practically new $25, H. B. OLIVER, EXbrook 8-1353.

PONTIAC, 1942, 2 door sedan, radio, heater, new radiator, custom seat covers, new brakes, engine in fine condition, new carburetor, $150, HAROLD SENTER, BRadshaw 2-7781.

REFRIGERATOR, Coldspot, 9 feet, excellent condition, finished in special white plastic, $35, OR 7-5925.

ROLLER SHOE SKATES, Chicago brand, size 9½, maple wheels, A-1 condition, $12, C. A. WINTERS, EX 9-3897.

HOUSE, 2 bedrooms and den, 2 fireplaces, floor furnace, fully insulated, w.w. carpeting, patio, concrete block wall, nicely landscaped, 1 year old, better than new, change of jobs necessitates move, $17,500, loan $10,000, 6 %. Submit on down payment, JAMES WATSON, PL 4-6527.

FRIGIDAIRE, late model 1950 G.M., 9 cu. ft., good condition, no scratches, $140, PAUL E. SLAVEN, NEwmark 2-8056.

MOTORCYCLE, 1942 Harley-Davidson 45, racing cams, and extras, good condition, $135, EILEEN BARACKMAN, OS 6-9253.

CHEVROLET, 1950 BelAir; MOTORCYCLE, early model; BATHINETTE, PLAYPEN and PAD, MUtual 2409 after 6:00 p.m.

WHEEL CHAIR, collapsible, all chrome, Everest-Jennings, $60, HARRY TENNYSON, NE 8-4757.

HOUSE, Norwalk-Downey area, 2 bedroom, stove, refrigerator, garbage disposal, w.w. carpet, photo darkroom, G.I. resale, $45 month including taxes, insurance, interest, $2500 equity or $1250 down, JIM HARPER. Reply in writing to Northrop News, Box 1062.

GAS RANGE, completely automatic; REFRIGERATOR, Frigidaire; RUGS, 2 matching blue, size 11x15 and 6x8 with pads; SWEEPER, Kenmore, with attachments, CATHERINE ZANE, FA 8-4531.

CAR RADIO, 1952 Motorola deluxe, A-1 condition, sells for $95 new, will sell for $40, FRANK CANNON. Reply in writing to Northrop News, Box 1061.

BUICK, 1937 club coupe, radio, heater, good tires, runs good, looks good, needs a home, RUSS LE VESQUE, EX 7-3004.

MOVIE PROJECTOR 16mm Bell and Howell, brand new, No. 273 with case, latest model, never used. Retails for $199.50 plus sales tax, will sell for $160, KURT W. PESTER. Reply in writing to Northrop News, Box 949.

PLYMOUTH, 1948 deluxe 4-door, heater and defroster, clean, good motor, 6 tires, make offer, $595, might take less, JAMES COSTELLO. Reply in writing to Northrop News, Box 1060.

ELECTRIC HEATER, 220 V. capacity, one, two or three thousand watts, equipped with thermostat, all chrome plated. Call TExas 0-5139 anytime after 9:00 a.m., cost $50, will take $25, F. A. NICOLAY.

TRAILER, 2-wheel, closed bed, approximately 3½' x 8' x 3', 2 good tires with spare, rear light, $75, W. A. WANDERER. Reply in writing to Northrop News, Box 1074.

RUNABOUT, marine plywood, brass screw construction, 11 ft., 5 h.p. outboard motor, many accessories, licensed trailer, perfect condition, $250, terms or trade, MARTIN M. HUNT, DU 4-6121.

GRILL PARTS for '50 Ford, front bumper, transmission gears, O.D. electric controls, front brake drum and other parts, all new and genuine, current wholesale prices, J. MERCER, SUnset 3-3962.

BICYCLE, boy's 19" Schwinn, had very little use, $25; BICYCLE, girl's 26" Schwinn, has light, package carrier, and spring type fork, $40, or will trade for boy's racing bike, HAROLD SENTER, BR 2-7781.

TARGET RIFLE, Model 416 Stevens .22; TARGET RIFLE, Model 44 US Mossberg .22, or will trade for .22 hunting rifles, E. J. STIDHAM. Reply in writing to Northrop News, Box 1075.

FOR SALE

MERCURY, 1941 deluxe, radio, heater and extras, $175 or will take tape recorder or 16mm camera in trade, H. G. YOUNG, FRontier 5-2097.

PLYMOUTH, 1937 four door sedan, column shift, milled head, near new tires, nosed and decked, new headliner, new upholstery throughout — vinyl plastic. Will trade for small metal 6" LATHE, and/or 10" or 12" BAND SAW, $100, C. WILLIAMS, LU 4006.

FREEZER, 13-foot Kelvinator, chest type, take over payments, nothing wanted for equity, nearly brand new, payments are $15.95 per month, balance $453. PATRICIA G. HOSE. Reply in writing to Northrop News. Box 1083.

TRIUMPH—'50, "T" Bird excellent condition thru-out. Never down, only 3300 mi. total, $445 cash, K. D. MORSE. Reply in writing to Northrop News Box 1084.

BICYCLE, boy's 24", very good condition, $25. G. J. LOVAS. EX 6-8072 after 5 p.m.

SET OF 9 VOLUMES entitled "Practical Business Administration," genuine red leather, like new, original cost $350, will sell for $40; BICYCLE, girl's 26", $18. VIRGINIA BAUBY, ORchard 1-3487.

TOOL BOX, Kennedy; MICROMETER, 1" Starrett; COMBINATION SQUARE, 6"; DIVIDERS, Lufkin; WIGGLER, Starrett; $26 for all. M. E. DALE, OSborne 5-1886.

BICYCLE, 26" English, man's, brand new, never been ridden, $45, L. VAN VALKENBURG. Reply in writing to Northrop News, Box 1082.

PUPPIES, black cocker, registered AKC (American Kennel Club), champion stock, males and females, MYRNA HERDER. Reply in writing to Northrop News, Box 1081.

ELECTRIC RANGE, Woolwine, complete with platail, large main oven plus warming oven, clock control panel, four cooking surfaces, good condition, $25, R. M. BROWN, LOgan 5-6790.

TURRET LATHE, 1¾" capacity, motor, bar feed, collets, lots tooling (old model in excellent condition). $1200, or take 21" H.D. drill press in trade, GEORGE C. GLADBACK, OS 6-3909, 10:00 a.m. to 3:30 p.m.

BOX TRAILER, two-wheel, all steel, has 1953 California license, G. J. PENN, OS 6-7657.

HIGH CHAIR, Cosco steel, chrome with red plastic seat and back, $10; STROLLER, Fonderolla and CAR SEAT $7.50. R. A. BRIDWELL, NEwmark 2-2642.

WASHING MACHINE, Kenmore, wringer type, 1 year old, good condition, timer, pump, make offer, VIVA M. SAVOY. Reply in writing to Northrop News, Box 1078.

ACCORDION, beautiful Crucianelli, 120 Bass, nine different tones, practically brand new, make offer, GEN CHODKOWSKI, OSborne 5-3803.

DE SOTO, 1948 7 passenger sedan, good rubber, paint, engine completely rebuilt, good mechanical condition throughout, leather upholstery, a perfect car for someone hauling passengers, $475, S. J. McCALEB, STate 5-9817.

TOP COAT, boy's gray gabardine, water repellent, zip-in lining, size 10, worn twice, $8, N. F. BERGMANN. Reply in writing to Northrop News, Box 1077.

BICYCLE, boy's 26" J. C. Higgins, excellent condition, $29.95; TRAIN, Lionel, complete with 5 cars, transformer, 17' track, 2 switches, like new, $15, CLAIRE JACKSON, FRontier 2-9702.

FORD, 1950 club coupe, radio and heater, $900, MEL RAUCH. ORchard 2-7124.

FOR SALE

HOUSE, 3 bedroom, fenced yard, corner lot, one-half block to school, one block to market, low down payment, full price $7950, EVELYN LOCHRIE. Reply in writing to Northrop News, Box 1076.

BICYCLE, Whizzer bike on Schwinn frame, like new, used only a few times, see to appreciate, $92.50 or make offer. C. A. BIRCHFIELD, EX 6-8903.

SHOTGUN, Remington Wingmaster, model 870AP, 12 gauge, like new, two boxes shells, $60, J. M. EVANS, HArbor 0094J

PLYMOUTH, 1951 Concord, two door sedan, driven 25,000 miles, excellent condition, $950, DON PETERSON, ORchard 2-7694.

FIRE EXTINGUISHERS, 2, like new, one for house and one for the car, will sell both for $10, GERALD H. ANDERSON, OS 5-2880.

COFFEE URN, 48 cup, aluminum, West Bend drip, with electric base, $20, GLORIA JARRETT, OS 6-5348.

STEEL GUITAR, electric, excellent tone, beautiful rosewood base, new strings, less amplifier, $25, J. W. HARRIS, OSborne 6-5847.

SAILING DINGHY, 8' Sabot class, stainless steel fittings, $100, or will trade for skin diving and fishing equipment. GEORGE DEVENDORF, OS 6-7588.

TRAILER, two wheel, stake sides, excellent 6:00 x 16 tires, has lights and is licensed, $60, H. L. BODELL, MEtcalf 3-7015.

WANTED TO BUY

MUSICAL INSTRUMENTS of all kinds, regardless of condition, pianos, violins, guitars, some bought for parts alone, JAMES BUSH, OS 6-6449.

PIANO, small upright, either bungalow or spinet, buy or store for use of same, PAUL HOMER. Reply in writing to Northrop News, Box 1065.

MITRE BOX for picture framing with saw, R. E. ANDREWS. Reply in writing to Northrop News, Box 1069.

SMALL TOBOGGAN or Flexible Flyer SLED, R. E. ANDREWS. Reply in writing to Northrop News, Box 1070.

BICYCLE, Girl's 20" or 24", KEN KLIER. Reply in writing to Northrop News, Box 1050.

PIANO, spinet type or baby grand, JOHN R. NORDEN. Reply in writing to Northrop News, Box 1085.

STEP STOOL, 10", for child, CAROL WATSON. Reply in writing to Northrop News, Box 1073.

FILE, 2 drawer, metal or wood, to be used for storage so price more important than condition, CAROL WATSON. Reply in writing to Northrop News, Box 1072.

TV SET, 21" table model preferred, condition of set doesn't matter. Phone Long Beach 401-461 after 6 p.m., CHARLES RAU.

TRANSCEIVER for light plane. L. F. and broadcast band, must be in working condition, T. R. NICHOLAS, LYcoming 2-5861.

COUPE, 40 or later model, Ford preferably, good mechanical condition, approximately $200, CHERIE WILSON. Reply in writing to Northrop News, Box 1057.

BAND SAW, small metal lathe 6", 10" or 12", C. WILLIAMS, LU 4006.

CROSLEY, wrecked or junk for parts, RUSS LE VESQUE, EX 7-3004.

(Continued on Page 7)

"They're running to make the BBSF deadline."

BBSF Classifieds

(Continued from page 6)

FOR TRADE

BICYCLE, boy's 19" Schwinn, had very little use, $25; BICYCLE, girl's 26" Schwinn, has light, package carrier, and spring type fork, $40, or will trade for boy's racing bike. HAROLD SENTER, BR 2-7781.

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PLYMOUTH, 1937 four door sedan, column shift, milled head, near new tires, nosed and decked, new headliner, new upholstery throughout — vinyl plastic. Will trade for small metal 6" LATHE, and/or 10" or 12" BAND SAW, $100, C. WILLIAMS, LU 4006.

REVOLVER, will trade .38 police positive Colt revolver special, ivory handle and leather holster for good pair of binoculars, AD FANCON, CR 6-3930.

CHINCHILLAS—Will trade one pair of good chinchillas for a good transportation car or pickup truck, JOHN V. KARSK, FRontier 2-1606.

CHEVROLET, 1937 coupe, good motor, 4 almost new tires, etc., will trade for the equity in a later model car, or will sell for best cash offer, G. W. "BILL" JOHNSTON. Reply in writing to Northrop News, Box 1055.

SAILING DINGHY, 8' Sabot class, stainless steel fittings, $100, or will trade for skin diving and fishing equipment. GEORGE DEVENDORF, OS 6-7588.

SHOTGUN, 12 gauge, double barrel; RIFLE, .22 semi-automatic; BUTANE TANK and REGULATOR, five gallon; I need pipe, plumbing, lumber, TV set, building materials, public address system, R. BRUMPTON, OS 6-5253.

FREE

COCKER, 5-months old, has had distemper shots, very sweet tempered, will give to some party that has fenced in yard and promises good care of dog, W. L. OLSASKY, NE 5-6464.

KITTEN, month old, seeks good home with adults, Box 368, Pacific Palisades, TAMARA ANDREEVA.

LOST

WRIST WATCH, Longines-Wittnauer, very small square yellow gold watch with tiny double band, lost at plant, MARIE LOUISE SAUER, AX 2-3350.

RENTALS OFFERED

ROOM, close to Northrop, $7.50 per week (breakfast and lunch if desired), 'MAC' McCOY. Reply in writing to Northrop News, Box 1053.

ROOMS—large single or double rooms in a lovely home, men or women, kitchen privileges, $7 to $10 per week, R. A. McGEE. Reply in writing to Northrop News, Box 1054.

HOUSE—Manhattan Beach, 2 bedroom, unfurnished, fireplace, thermostat, w/w carpet, patio, fenced yard, good location, lease, option to buy if desired, $100, JOHN STERLING, FR 4-8608.

PANELED DEN, transportation available to 7:00 a.m. shift in '49 Ford. For further details write TAMARA ANDREEVA, Northrop News, Box 1064.

RENTALS OFFERED

HOUSE, 3 bedroom, unfurnished, brand new, never lived in—Newport Villa, 2 miles from Newport Beach area—cleaning deposit required, lease $85 month, ready for occupancy about December 15 or January 1, S. M. SIMPSON, ORchard 2-8076.

GARAGE ROOM with stove and running water, furnished, $25 per month, R. C. ADAMS. Reply in writing to Northrop News, Box 1068.

ROOM, furnished, Manhattan Beach, ½ block to ocean, $10 per week, G. B. RUTH, FRontier 2-7414.

ROOM in private home 1½ miles from Northrop, prefer male on second shift, $10 a week, B. J. McNABB, PLymouth 4-3698.

RENTALS WANTED

HOUSE, 2 or 3 bedroom, furnished or unfurnished, must be reasonable, LARRY LAUER, OR 1-3798 days.

CHILD CARE OFFERED

CHILD CARE offered in my home. Any age, close to school, fenced-in back yard, $10 per week, LEATRICE J. DAWSON, OSborn 6-6551.

CHILD CARE WANTED

CHILD CARE, for 2 children, light housework, five days, live in or out, older woman preferred, salary open, VIOLET M. CONGDON, ME 9-3464.

PERSONALS

RIDERS WANTED to Nebraska over Christmas. share driving and expenses, KATHY, FR 4-9646.

FLYING to Little Rock, Arkansas, via private plane, room for one passenger, share expenses, one way, leave afternoon Dec. 24 or early 25. Ship isn't a luxury liner, but it's dependable, "BUZZ" BROWN, PL 8-8747.

RIDERS WANTED to share expenses to anywhere in Texas during Christmas vacation. Would prefer couple or couple and small child, but will consider single party. Transportation in private twin-engined aircraft, plan to leave Dec. 26, a.m.—return Jan. 1 or 2, or what plans have you? MILLIE PREWITT, ORchard 2-0824.

ATTENTION all Norcrafters from Webb City, Missouri: let's get together at the Palladium party, December 5. Call DOLLY, TOpaz 2-5752.

RIDERS WANTED, leaving 22 December for Joplin, Missouri, returning 3 January 1954, VELMA ELLIS, Long Beach 5-0052.

CHRISTMAS PORTRAITS taken in your home, pay or trade, for further arrangements phone EXbrook 5-9262 any Sunday between 8 and 9 a.m. or write Box 368, Pacific Palisades, TAMARA ANDREEVA.

RIDERS WANTED, leaving for Pennsylvania December 26 by way of Dallas, Texas and Montgomery, Alabama—north to Pittsburgh, Pennsylvania—whole or part way. 2 passengers, ROBERT W. CLARK. Reply in writing to Northrop News, Box 1079.

CHRISTMAS GIFTS, ceramic molds for hobbyists. For free pictures and price list of new original designs, write E. W. HUNTER, Northrop News, Box 1080.

"What happened to 704?"

Curfew In Muffler Area

IN MUFFLER AREA engine run-ups use no after-burner after 8:00 p.m., shut off entirely at 11:00 p.m. to keep necessary jet roar to minimum. This scene shows night crews of Flight Service department putting Scorpion engines through paces. Running engines is George Palmer; standing on wing—Bob Stevens; checking engine in front (note safety guard) is Bob Chapin; Fred DeNuccio stands in back cockpit as he learns the operation. Ground communication with cockpit via interphone lets Norcrafter running engines keep tab on them; special meters provide readings on temperatures as engines check out.

The STORK CLUB

Happy Family

C. B. Brower (7310) and wife Myrtle (5504) are happy parents of Lynda Rae. Lynda weighed 7 pounds when she arrived at the Inglewood Bassinette Hospital on 15 November 1953.

Littlest Angela

John M. Guerreiro, Jr. (5509) and wife Olivia proudly announce the birth of daughter Angela. Time was 12:56 a.m. when Angela arrived at the St. Francis Hospital. Date was 15 November 1953 and she weighed 6 pounds, 8 ounces. Bernadette, age 5, was home to welcome her new baby sister.

Three Little Sisters

Three girls was the total for Doyle Roberts (5587) and wife Katherine (5504) when Doylene Cathy was born at 6:44 p.m. on 7 November 1953. Nurses at the California Lutheran Hospital noted her weight at 7 pounds, 14 ounces. Patricia May, age 10, and Diana Nancy, age 6, round out the trio.

New Scott

Airman Dale Scott and wife Gladys Patton Scott (Patrick-Flight Department) proudly announce the birth of Gregory Alan. Little Greg arrived at Base Hospital, Patrick Air Force Base, at 6:10 p.m. on 13 November 1953. First child for the Scotts, he weighed 6 pounds, 13 ounces.

Baby Bligh

Joseph Arnold Bligh (3310) and wife Dorothy Anne happily announce the arrival of son Edward Arnold. First child for the Blighs, he checked in at 9:38 a.m. on 23 November 1953. Scene of the arrival was St. Francis Hospital in Lynwood. Little Edward weighed 8 pounds, 9 ounces.

Lucky Friday 13

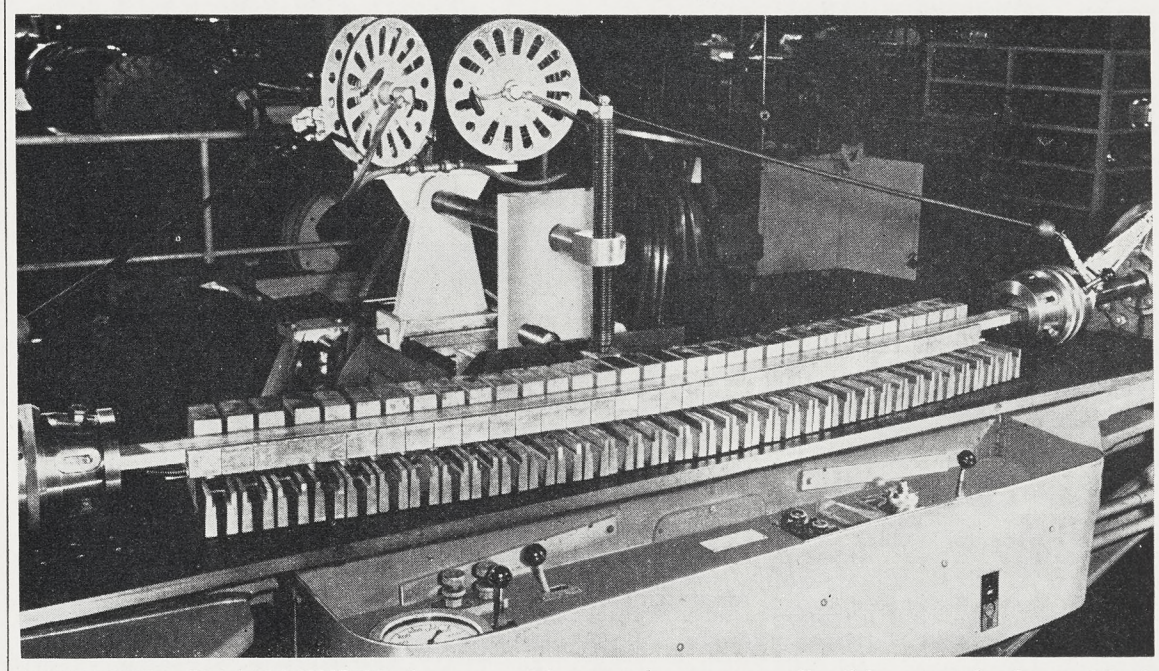
Nate Kates (5515) and wife Ruth are happy parents of daughter Phyllis Diane. The little girl arrived at the Queen of Angels Hospital at 6:33 p.m. on Friday, 13 November 1953. Brother Michael Lee was on hand to greet his 5 pound, 5 ounce baby sister.

THE HITCHING POST

Norcrafters Wed

Candlelight ceremony was the theme for the marriage of Thelma Barwick (5585) and Jack Dodson (5584) on 7 November 1953. The wedding vows were taken at 8:00 p.m. in the Trinity Lutheran Church of Hawthorne. Following the reception at the church the newlyweds departed for a short honeymoon trip to Laguna Beach.

Stretch Press Equipment



DEVELOPED BY NORTHROP for use with stretch presses, flexible stretch form block shown will be manufactured and marketed by Hufford Machine Works, Inc., under exclusive license awarded by Northrop. Ex-Norcrafter Stanley L. "Tiny" Graham had large hand in development of the block, which provides flexible and economical way of making small quantities of curved sections on stretch presses. It also opens up handling of many varied curves without using costly dies. Licensing was handled by Associated Products.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
VERMONT & WASHINGTON BLVD., Los Angeles. W. A. HUTT (5503-16, Ext. 2417), RE 6138. (12-1-1)

ST. ANDREWS & 51ST ST. (Route: Western, 54th, Manhattan, Slauson, Van Ness, Century, Prairie by Plant I), Los Angeles. PATRICIA MILLER (5224-60, Ext. 2791), AX 2-5907. (12-1-1)

FLORENCE & 8TH (Route: Crenshaw Blvd. to Broadway, Hawthorne. Prefer car pool), Los Angeles. M. ANNESE (5113-42, Ext. 1342). (12-1-1)

(Zone 5)
ROSECRANS & LAKEWOOD BLVD., Bellflower. BOB WEYRICK (5586-175, Ext. 1973 & 483), ME 3-8554. (12-1-5)

CARSON & WOODRUFF, Lakewood. WM. H. THOMAS (5161-84, Ext. 548), LB 5-5146. (12-1-5)

STUDEBAKER & CENTER (Car pool satisfactory), Norwalk. HARRY W. WALKER (3230-513, Ext. 2058), TO 3-2764. (12-1-5)

MANCHESTER, Artesia, Alameda, Rosecrans to the plant, Anaheim. BERNICE EIDSON (5524-59, Ext. 2209). (12-1-5)

(Zone 6)
SANTA FE & PACIFIC COAST HWY. or WILLOW. (Will pick up anywhere near.) Long Beach. JANE G. GAYLE (5507-55, Ext. 526) 70-8826.

(Zone 7)
PACIFIC COAST HIGHWAY to Main, Long Beach. JOYCE SAWARDS (5128-29, Ext. 1946), LB 999-32. (12-1-7)

(Zone 10)
HERMOSA AVE. & 19TH (car pool desirable), Hermosa Beach. LUCILE VAN WORMER (5507-122, Ext. 526), FR 2-8635). (12-1-10)

RINDGE & BATAAN RD. (Bataan is three blocks south of Manhattan Beach Blvd.), N. Redondo Beach. BEULAH WALKER (5235-28, Ext. 1827). (12-1-10)

(Zone 12)
PICO BLVD. & 24TH (Now in a 3 person car pool), Santa Monica. W. H. THORNBURGH (5222-355, Ext. 1273). (12-1-12)

(Zone 14)
LA BREA & SANTA MONICA BLVD., Hollywood. DONALD J. CLIFFORD (5587-551), HO 9-0021. (12-1-14)

VINE & SANTA MONICA, Hollywood. Via Santa Monica, LaBrea to Plant I, will take two riders. RICHARD C. KILMURRY (5587-78. Ext. 1973). HO 9-9479.

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
ST. ANDREWS & 51ST ST. (Route: Western, 54th, Manhattan, Slauson, Van Ness, Century, Prairie by Plant I), Los Angeles. PATRICIA MILLER (5224-60, Ext. 2791), AX 2-5907. (12-3-1)

(Zone 4)
FIRESTONE BLVD. & IMPERIAL HWY. (Call home 6:00 p.m. to 8:00 p.m.), Norwalk, GEO. E. McDOWELL (5518-106, Ext. 2792), TO 3-6009. (12-3-9)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 2)
WILSHIRE & LUCAS or HARTFORD & 6TH AVENUE, Los Angeles. Can take four or five in 1950 Buick sedan. JOHN A. LEE (9330-44. Ext. 1471). MAdison 6-8560.

(Zone 8)
SEPULVEDA & WESTERN (Car pool desirable), Lomita. VINCENT M. GEIGER (3310-34, Ext. 414), DA 6-3386. (13-1-8)

(Zone 12)
SUNSET BLVD. & SALERNO (Via 7th and San Vicente and through Playa del Rey), Pacific Palisades. JOAN CLARK (5150-24, Ext. 2324). (13-1-12)

VENTURA BLVD. & TOPANGA CANYON BLVD. (Via Ventura Blvd to N.A.I. Room for 1), Woodland Hills. J. M. HERRINGTON (6620-2, Ext. 1519 or 2126). (13-1-12)

VENICE & LINCOLN, Santa Monica. BOB ANDREWS (5112-17, Ext. 1475). (13-1-12)

(Zone 14)
CLEON AVE. & VICTORY (Prefer car pool), North Hollywood. ROBERT BAGBY (5126-60, Ext. 1931), SU 3-6126. (13-1-14)

RIDES OFFERED

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
ATLANTIC & ARTESIA, Long Beach. L. C. PLEGER (3360-28, Ext. 1889), L.B. 20-50-60. (13-3-5)

(Zone 12)
VENTURA BLVD. & TOPANGA CANYON BLVD. (Via Ventura Blvd. to N.A.I. Room for 1), Woodland Hills. J. M. HERRINGTON (6620-2, Ext. 1519 or 2126). (13-3-12)

(Zone 14)
SANTA MONICA BLVD. & GOWER or SUNSET & GOWER (Join existing car pool), Hollywood. I. J. PETERS (3430-126, Ext. 2035 or 1516), HO 4-0501. (13-3-14)

7:30 a.m. — 5:15 p.m.
(Plants 1 and 2)

(Zone 12)
LINCOLN & SANTA MONICA BLVD. (Will join car pool. Route: Lincoln—Imperial—Prairie), Santa Monica. BING TULLY (3238-522, Ext. 503), EX 3-8029. (14-2-12)

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 3)
ROSEMEAD BLVD. (South to Anaheim, Telegraph, west to Paramount, south to Imperial, and west to Crenshaw, take 3), Rosemead. R. SYLVESTER (5588-615, Ext. 1938), AT 7-1762. (16-1-3)

3:45 p.m. — 12:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 3)
ROSEMEAD BLVD. (South to Anaheim, Telegraph, west to Paramount, south to Imperial, and west to Crenshaw, take 3), Rosemead. R. SYLVESTER (5508-615, Ext. 1938), AT 7-1762. (16-3-3)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 3)
MANCHESTER & SAN PEDRO, Los Angeles. Will take four riders. R. E. DAVIS (5524-463. Ext. 2209). PL 2-2498.

(Zone 9)
REDONDO BEACH BLVD. & PRAIRIE AVE. (Will go further), Lawndale. F. E. LATHROPE (5504-463, Ext. 1424), FR 2-7774. (18-1-9)

(Zone 12)
MANCHESTER & FREEMAN BLVD., Inglewood. NORMAN NORFJOR (5503-232, Ext. 2681). (18-1-12)

(Zone 13)
HAWTHORNE & LENNOX, Lennox. BOB DOSLAND (5585-681, Ext. 1381). (18-1-13)

(Zone 14)
VENICE & CRENSHAW, Los Angeles. B. R. STEFANSKI (5534-267, Ext. 2244). (18-1-14)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 10)
SEPULVEDA & ROSECRANS (Will join car pool. Hours 4:30-2:00), Manhattan Beach. RAYMOND H. GRISH (5920-257, Ext. 1725), FR 2-4673. (20-1-10)

Rides Wanted

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
WESTERN AVE. & VENICE BLVD, Los Angeles 6. HAROLD SMITH (5588-159, Ext. 1529), RE 3-5365. (2-1-1)

(Zone 2)
CENTURY & WESTERN, Los Angeles 47. GLENN E. SMITH (5503-368, Ext. 2681), PL 5-1747 (2-1-2)

CENTRAL AVENUE & 47TH, Los Angeles. THEODORE KELLY (5544-99, Ext. 1448) AD 1-1044.

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 4)
FIRESTONE & LONG BEACH BLVD., South Gate. DALE J. HERENDEEN (5524-105, Ext. 2209), LO 6-9220. (2-1-4)

(Zone 5)
ROSECRANS & LAKEWOOD BLVD., Bellflower. BOB WEYRICK (5586-175, Ext. 1973 & 483), ME 3-8554. (2-1-5)

CARSON & WOODRUFF, Lakewood. WM. H. THOMAS (5161-84, Ext. 548), LB 5-5146. (2-1-5)

STUDEBAKER & CENTER (Car pool satisfactory), Norwalk. HARRY W. WALKER (3230-513, Ext. 2058), TO 3-2764.

CARSON & STUDEBAKER. (Will move to this address about 1st of Dec. Would like to contact ride before this date.), Lakewood (Carson Park). MAXINE MAULORICO (5507-81, Ext. 526). (2-1-5)

WESTERN & EL SEGUNDO, Gardena. ROSE MARIE MITCHELL (5504-64, Ext. 1424), Menlo 9-2694. (2-1-5)

(Zone 6)
CLARK & CARSON, Long Beach. GARY PROUT (5508-199, Ext. 2327), L.B. 53-703. (2-1-6)

(Zone 7)
SEPULVEDA & FIGUEROA. (Sun Crest Park), Wilmington. FRED C. JOHNSON (5503-197, Ext. 2681), TErminal 4-7047.

(Zone 8)
CARSON & ANDREO, Torrance. ANNE STEVENSON (5353-88, Ext. 1628), FAirfax 8-1144. (2-1-8)

ARLINGTON & CARSON, Torrance. N. A. WILLIAMSON (5445-98, Ext. 1926), FA 8-6839. (2-1-8)

(Zone 9)
FIRMONA & 171 ST., Lawndale. CLAUDE LUCAS (5508-62, Ext. 1463). (2-1-9)

(Zone 10)
OCEAN GATE & 13TH or ANZA & 134TH, Hawthorne. KAY PUETT (5507-503, Ext. 526), OS 6-5195. (2-1-10)

HERMOSA AVE. & 2ND ST., Hermosa Beach. HELEN NORGAARD (5507-124, Ext. 526). (2-1-10)

RINDGE & BATAAN RD. (Bataan is three blocks south of Manhattan Beach Blvd.), N. Redondo Beach. BEULAH WALKER (5235-28, Ext. 1827). (2-1-10)

(Zone 12)
PICO BLVD. & 24TH (Now in a 3 person car pool), Santa Monica. W. H. THORNBURGH (5222-355, Ext. 1273). (2-1-12)

(Zone 13)
SEPULVEDA & EXPOSITION BLVD., West L. A. KENNETH MAITLAND (5584-701, Ext. 1382), ARizona 9-2694. (2-1-13)

MANCHESTER & EUCALYPTUS, Inglewood. El RAY JOHN FRANKLIN (5586-105, Ext. 1973), OR 7-8093. (2-1-13)

ARBOR VITAE & FREEMAN, Inglewood. LLOYD A. NUTT (5586-178. Ext 1947). OR 8-2085.

(Zone 14)
JEFFERSON & REDONDO or HAUSER & HOMESIDE, Los Angeles. R. W. BUTLER (5584-710, Ext. 1382), WY 0019 (2-1-14)

SANTA BARBARA & CRENSHAW, L. A. MARTHA HAWKINSON (5338-29, Ext. 2426), AX 1-7204. 2-1-14

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
CHERRY AVE. & ARTESIA ST., Long Beach. HAZEL BULLION (5621-24, Ext. 2649), Long Beach 2-3540. (2-3-5)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 1)
ALVARADO & 6TH, Los Angeles. VIRGINIA MUSSELMAN (AF, Ext. 1937), DU 4-4779. (3-1-1)

(Zone 8)
PACIFIC COAST HWY. & OAK, Lomita. JANICE WOODMAN (4220-38, Ext. 2421), DA 6-5810. (3-1-8)

WESTERN & 235TH, Torrance. YVONNE BOWERMAN (1441-41, Ext. 691), DA 6-4787. (3-1-8)

(Zone 9)
HIGHWAY 101 & ROBERT ROAD. (Seaside Ranchos), Torrance. HOWARD BUTLER (5910-837, Ext. 2488), FR 5-5171.

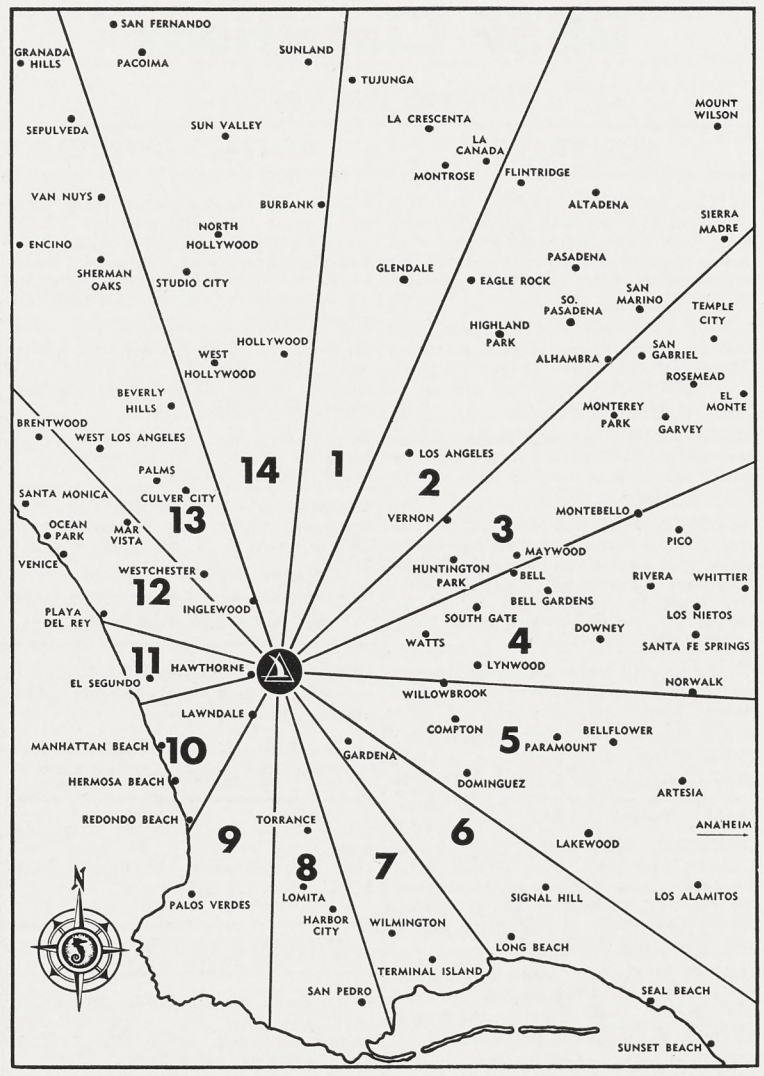
(Zone 12)
MANCHESTER & LA TIJERA, Los Angeles 45. BEVERLY J. PALOMBO (9320-36, Ext. 2151), ORchard 1-9161. (3-1-12)

(Zone 13)
OAK & ARBOR VITAE, Inglewood. JEAN CARSON (1441-73, Ext. 691), OR 2-4627.

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
BEVERLY BLVD. & HOOVER ST. (Will take a ride into Hollywood or any location that I can reach by streetcar or bus), Los Angeles. ROGER TALLMAN (6410-18, Ext. 2508). (3-3-1)

(Zone 4)
IMPERIAL & FIGUEROA, L. A. ANNETTE APODACA (1441-82, Ext. 2393), PL 6-4508. (3-3-4)



RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
WOODRUFF & CENTRALIA or Harvey Way & Canehill Ave. (Desperately in need of a ride!), Lakewood. DORIS NEWMAN (6250-17, Ext. 739), L. B. 39-6951. (3-3-5)

ATLANTIC & ARTESIA, Long Beach. L. C. PLEGER (3360-28, Ext. 1889), L.B. 20-5060.

(Zone 8)
CRENSHAW & 174TH ST., Torrance. JOYCE RANZENBERGER (3140-742, Ext. 459 or 495), ME 4-9618. (3-3-8)

(Zone 9)
HAWTHORNE BLVD. & 182ND ST., Torrance. ROSALIE T. GILBERT (5373-20, Ext. 547 or 493). (3-3-9)

SEPULVEDA, ¼ mi. west Hawthorne Blvd., Torrance. B. N. DEWALD (3460-811, Ext. 2474). (3-3-9)

(Zone 12)
AIRPORT BLVD. & LA TIJERA, L. A. 45. GLORIA G. PSOMAS (8620-78, Ext. 84), OR 8-6648. (3-3-12)

INGLEWOOD AVE. & CENTURY BLVD., Lennox. PAT CARLBERG (3140-889, Ext. 1839), OR 7-8904. (3-3-12)

(Zone 13)
FREEMAN & HYDE PARK or LA BREA & HYDE PARK, Inglewood. PAUL L. KOHL (8320-60. Ext. 11 or 12).

7:30 a.m. — 5:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 10)
MARINE & HIGHLAND AVE., Manhattan Beach. DIANE T. HAMPTON (3350-826, Ext. 2781). (4-3-10)

3:45 p.m. — 12:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 13)
SEPULVEDA & CENTINELA or Sepulveda & Slauson. (Will trade rides if desired), Culver City. GINGER ARKILL (5538-225, Ext. 2185 or 525), EXbrook 8-4007. (6-3-13)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)
VERMONT & 3RD, Los Angeles. GUY W. GRANT (5503-451, Ext. 2681), DU 7-0597. (8-1-1)

SANTA BARBARA & BUDLONG, Los Angeles. Just a ride going home would help. LUCY L. LEWANDOWSKI (5584-473 Ext. 5585). AX 2-0582.

(Zone 2)
UNION & 6TH, Los Angeles. PETER PARASCO (5508-428, Ext. 2230), DU 3-9008. (8-1-21)

MANCHESTER & VERMONT or NORMANDIE, Los Angeles. IRENE KENDER (5503-844), Ext. 2681), PL 2-2888. (8-1-2)

(Zone 5)
CARSON AVE. & BROOKHURST (Need ride starting about Dec. 15), Garden Grove. MARY JEAN HANGSLEBEN (5100-214, Ext. 1475 or 663), ME 4-6519. (8-11-5)

RIDES WANTED

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 7)
VAN NESS & COMPTON BLVD., Gardena. BETTY CUETO (5507-413, Ext. 526). (8-11-7)

(Zone 13)
MANCHESTER & OSAGE, Inglewood. EDWARD DENNIS (5503-438, Ext. 2681). (8-1-13)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
HAZELBROOK & SOUTH ST. or MICHELSON & LAKEWOOD BLVD, Long Beach. ANDREW L. QUISENBERRY (5621-281), ME 3-7009. (8-3-5)

(Zone 6)
CHERRY AVE. & 1ST ST. Long Beach. LARETTA BRIDGWOOD (5621-298, Ext. 2649), LB 70-4857. (8-3-6)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 10)
SEPULVEDA & MANHATTAN BEACH BLVD. (Hours 4:15 to 12:45), Manhattan Beach. MILDRED L. VANTAM (5930-239, Ext. 2498). (10-1-10)

(Zone 13)
LA BREA & ARBOR VITAE (Hours 4:15 to 12:45), Inglewood). MARY C. BURDETTE (9330-263, Ext. 1471). (10-11-13)

Lynwood

RIDES WANTED

7:00 a.m. — 3:45 p.m.

(Zone 1)
HOOVER & W. SEVENTH, Los Angeles. JOHN E. SAMARAS (7100-30. Ext 103). DU 7-0834.

CASABA QUINTS FORM UP FOR PRACTICE PLAY

There have been 12 teams entered in NRC Basketball, announces Larry Baird, acting commissioner, with practice games scheduled for Monday and Thursday nights until Christmas. Site of the games is Leuzinger High School.

The first league game is scheduled for Monday, January 4, 7:45 p.m.

There will be a meeting to form rules for the coming season at the NRC Clubhouse on Wednesday, December 9, 7:30 p.m. All managers and captains are urged to attend.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BASKETBALL CLUB (day)
Larry Baird, acting commissioner
Scheduled practice Monday & Thursday evening 7:45 to 10:00, Leuzinger High School Gym.

BASKETBALL CLUB (night)
Available practice sessions at Rosecrans Playground, 149th and Vermont, Gardena—Monday and Tuesday mornings, 10:00 to 12:00.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily, Plaster Shop tent 11:00 a.m. Plt. 1; Second Floor, center conference rm. Plant 11, 12:30; Conference Rm. 5, 12:15 Plant Three.

BOAT CLUB
Harold Senter, commissioner
Next meeting Saturday, Dec. 7, 7:30 p.m. NRC Clubhouse.

BOWLING (days)
Chuck Carson, commissioner
Tournament planned for Christmas Holidays season. Entry forms and rules available at PA&S. Deadline for entries, Dec. 7.

BOWLING (nights)
Tony Cardoza, commissioner
Holidays tournament. Call PA&S for details.

BRIDGE CLUB
Bill Glose, acting commissioner
Meet Tuesday evening, Dec. 8, NRC Clubhouse. Chartered — Rating Points.

CAMERA CLUB (days)
Walt Darby, commissioner
Next meeting Friday, Dec. 4, 8:00 p.m., NRC Clubhouse annex.

CAMERA CLUB (nights)
Adam Slusarz, acting commissioner
Next meeting, Sat. Dec. 5, 8:00 p.m., NRC Clubhouse annex.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (days)
Jim Milne, commissioner
Year-End tournament, Christmas to New Years'. More details on bulletin board.

GUN CLUB
Dick Wood, acting commissioner
Meet every other Tues., 7:30 p.m., NRC Clubhouse. Next meeting, Dec. 8.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m. Call PA&S for information concerning meeting place.

PHILATELIC CLUB
George Borton, commissioner
Philatelic & Numismatic combined club meets 1st, 3rd Mondays in Dec. NRC Clubhouse, 7:30 p.m. Next meeting Dec. 7.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun. Dec. 6, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, Dec. 3.

SEA SCOUTS
Frank Ziegler, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Dec. 12. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Jan. 29, NRC Clubhouse Board Room.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse.

SQUARE DANCING
Dave Dyer, commissioner
Meet every Sunday eve., 7:00 to 10:00 p.m., NRC Clubhouse annex.

SURF FISHING
Ted Griswold, acting commissioner
Meets 1st Thursday each month, NRC Clubhouse, 7:30 p.m.
Dec. 3 is Beginners' Night.

TOASTMASTERS 212 (days)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS 1398 (nights)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon. Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Orval Coley, commissioner
Next meeting Wednesday, Dec. 16, 7:30 p.m., NRC Clubhouse.

Night Shift Kegling Royalty

THESE NIGHT SHIFT Norcrafters were among winners in Mixed Foursomes and 765 Scratch bowling leagues recently concluded. In first row: J. W. Young, N. M. Bos, and Alice Stephens, all on runner-up squad #5; Night Bowling Comish Tony Cardoza; Sally Sorrell, Grace Mieir, and Sam Sorrell, of first-place Scorpions. (Al Foedisch was fourth member). Rear: A. P. Playford, R. M. Babcock, B. R. Crary, J. G. Holcomb, and R. N. Ensign—all on "Kingpins", runners-up to champions in 765 Scratch league. Competition in league was very keen. Next big kegling event is the Holidays' tournament.

TOP TEAM in 765 Scratch league was the Kollatz'. Four of the combine are shown above: C. T. Hynes, H. M. Kollatz, G. G. Steiner, and B. E. Braithwaite. Missing kegler from photo is D. L. Moser. This quintet, along with others in league, knocked the maples down at the Vermont Bowl.

SS Sea Gull Competes In Rendezvous

Members of the S. S. Sea Gull, under command of Skipper Art Tatosky, cruised to Point Hueneme from their anchorage at Cabrillo Beach on Thanksgiving Day to attend the annual three-day Explorer Scout Rendezvous.

The S. S. Sea Gull has placed in the top class for the past eight years and had high hopes of holding that position when it competed in seamanship and land skills with Explorer units from five southwestern states. Competition results were not available at press time.

Saturday night, Skipper May Hawkins and 15 Mariners drove to Point Hueneme to attend the dance as guests of the Sea Gull.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard

BASKETBALL
Teams now forming. Practice sessions at Green Meadows Playground, 431 E. 89th St. every Tues. night, 7 p.m.

BOWLING
Florence Rice, commissioner
Ladies Handicap League in progress at Torrance Bowl, Tues. 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Interested ladies please contact PA&S.

FLOWER CLUB
Mary Nelson, acting commissioner
Meet first and third Tues. of each month. NRC Clubhouse, 7:30 p.m. New members welcome.

GOLF CLUB
New series of golf lessons now available Culver City Course. Tues. 7 p.m. For information, call PA&S, 2784.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse. Upholstery instruction provided.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP MARINERS
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Marie L. Sauer, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

Norcrafter Represents Area In State TM Race

A Norcrafter will represent Toastmasters Area 12 in the state "speak-off" next spring, when J. Ward "Newt" Newton, vice-president of NORAIR 1398, night shift Toastmasters organization, strives to win the honor of representing the state.

Newton became eligible for the speak-off by winning the Humorous Speech contest at the Area 12 Round-up, held last month. All TM clubs in the area were represented.

Winner of the state speak-off will go to Washington, D. C., as the state representative in the contests to be held at the organization's 1954 convention.

Newton is vice-president of the night shift group, which is headed by Eugene Gruber, Jig Construction. Newt works in Standard Tooling (5223).

SKI CLUB SCHEDULES TOP MEETING AT NRC CLUBHOUSE DECEMBER 10

A formative meeting of the newly re-activated NRC Ski Club will be held on Thursday, December 10, 7:30 p.m., at the NRC Clubhouse.

All Norcrafters and families and friends who are interested in joining the club are urged to attend this first meeting of the group. Trip dates and locations will be discussed.

As announced earlier, the club will not own a tow this year, and thus the members will be free to roam as they will.

MORE TIME FOR NOEL KEG ENTRY

Bowling Commissioner Chuck Carson (days) announces that deadline for entry in the Holiday Tournament has been extended to December 7. Entry blanks are available at Personnel Activities & Services, extension 2784.

The Holiday Tourney is scheduled to get underway on Sunday, December 27.

Fish, Game Discussion Monday

By Joe Cribbs
President
Northrop Recreation Club

California's one and three-quarters million licensed sportsmen will have an unequalled chance this year to make known their recommendations for 1954 angling and hunting seasons and bag limits.

Joe Cribbs

A series of public meetings will be held in the various regions between interested sportsmen and personnel of the Department of Fish and Game.

Meeting date in Los Angeles is set for Monday evening, December 7, 8:00.

Here, conservationists, landowners, hunters and fishermen of the region may present their ideas on future regulations. The joint sportsmen-personnel findings will then be turned over to the Department as a unified recommendation.

★ ★ ★

Hawthorne VFW sponsored a "Welcome Home" parade for all Hawthorne Korean veterans on Saturday, November 7. Each veteran received a scroll with his name, rank, serial number and division, plus medals received while in combat. The NRC Riding Club participated in the parade and was the only mounted group in the parade. A dance was held in the evening at VFW Hall in Hawthorne.

★ ★ ★

NRC Anaheim has a new vice-president—Bill Burgart, popular timekeeper in the Northrop range-finder plant.

Bill was elected to the post on 9 November 1953, when Anaheim Norcrafters met in the newly opened NRC Canteen. Norcrafter range-finders anticipate a good year with Bill at the recreational oars.

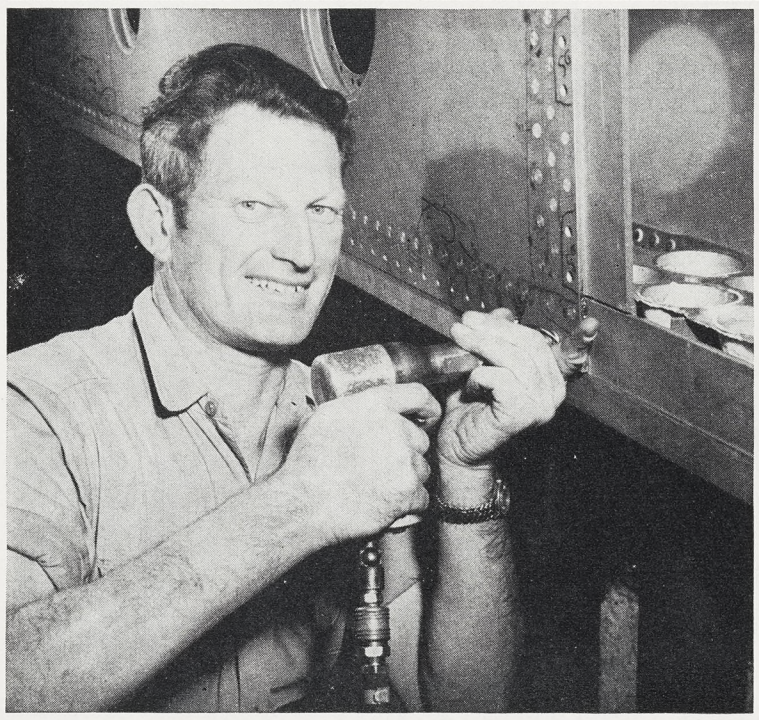
Having played a lot of college football and basketball, sports-minded Bill has been softball commissioner this past year at Northrop-Anaheim.

His interests, however, range much further than ball: Bill was a pre-med student in college.

Bill and wife Elizabeth—and Joan Ann, Christopher, and Rhonda Lee—reside at 5835 Marita Street, Long Beach.

To honor Bill as his year begins, the Executive Council, myself included, journeyed down to Anaheim last Saturday night to join other Norcrafters in the First Annual Inaugural Ball. Held at the Anaheim Elks Club, it was the Council's privilege to sponsor the event and to wish Bill the best.

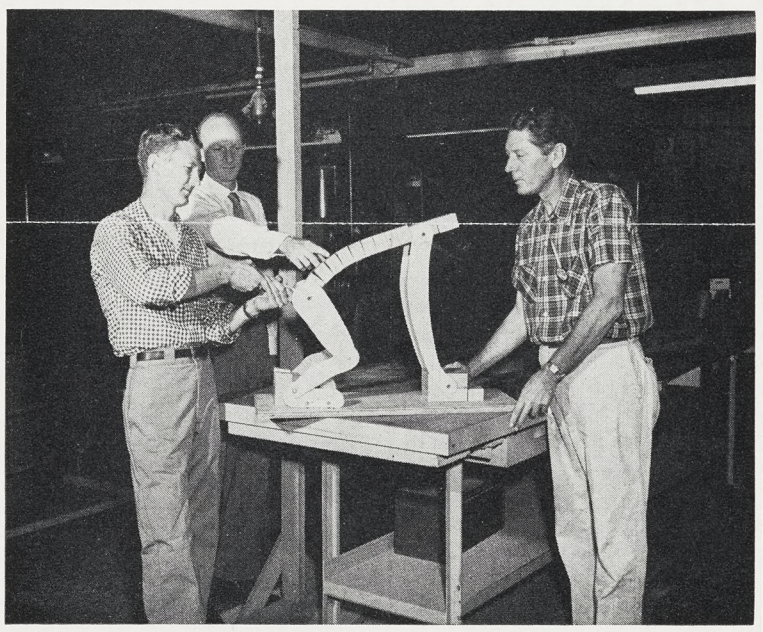
THE Northrop Scene BY DAY AND NIGHT



ONE OF SEVERAL excellent attendance records hung up by Norcrafters belongs to Martin Carman, Outer Wing Assembly. Although Martin drives about 40 miles a day to and from his Highland Park district home, he has missed only one day since he began working for Northrop in February, 1942. He cannot recall ever having been tardy in the near-dozen years. His day off the job absence was due to illness.

Postman's Holiday Photographs

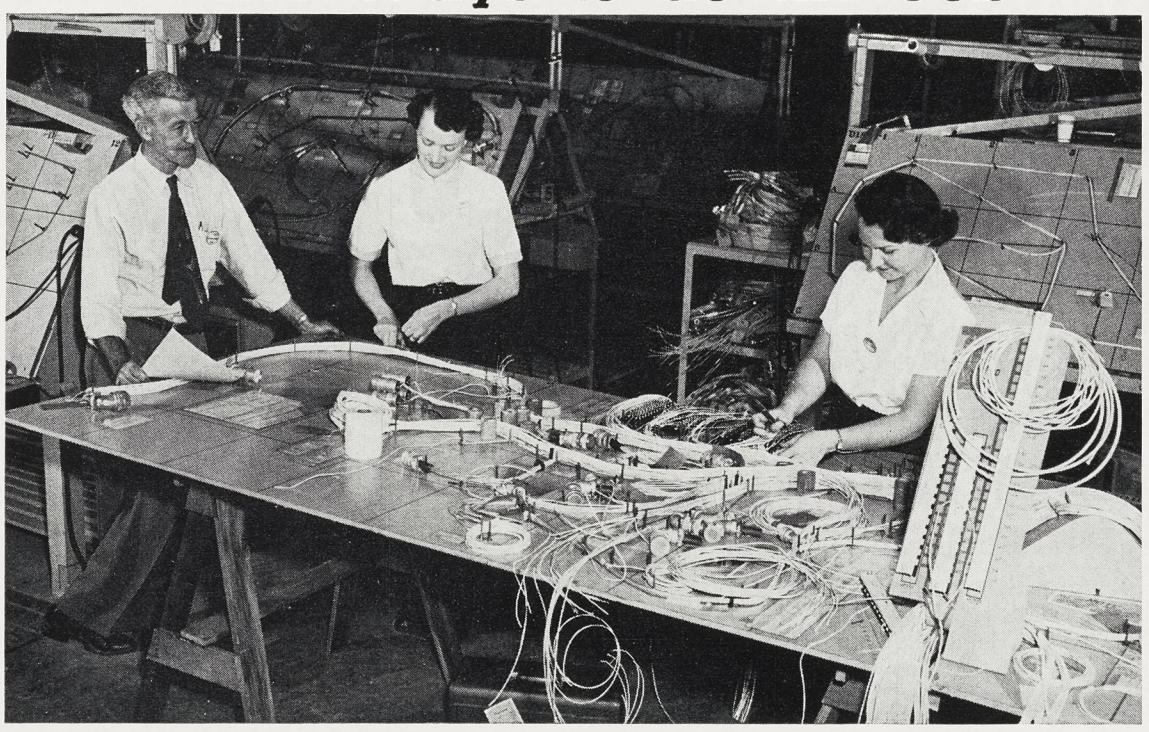
PHOTO LAB Norcrafters — husbands and wives — converged fifty-three strong on the Shangri-La in New Chinatown for annual department get-together. Dinner was completely Chinese—served Cantonese family style. Photogs Al Saiget and Bill Sterr took long enough time out from festivities for postman's holiday film record. Enthusiastic vote of group was for repeat performance—and why wait for the next annual gathering of clan?



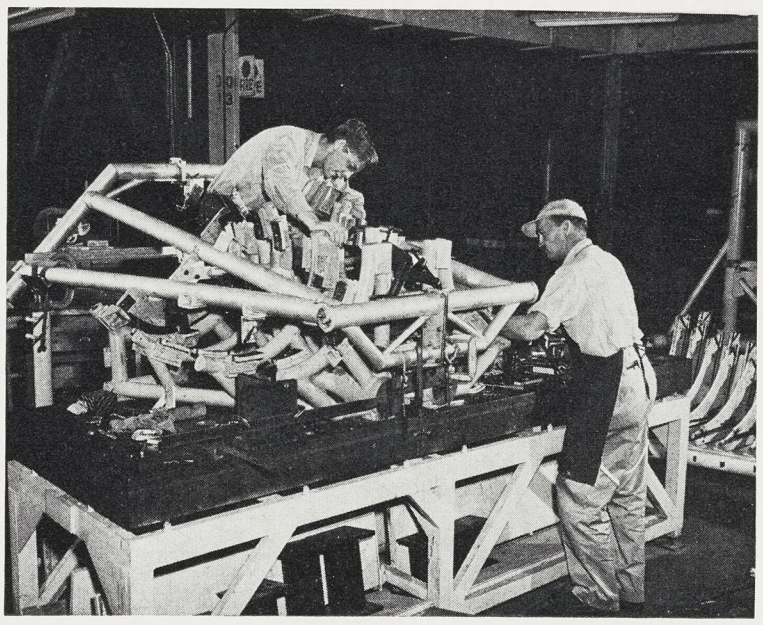
GRAPHIC demonstration of right and wrong ways to lift can be shown by small block figure made by Model Shop Norcrafters for Safety department. Night shift Model Shop personnel who helped make figure are shown; they are Clarence Brown and Jim Fletcher—with them is Safety department representative Ben Knell, who points out that the wrong way of lifting tends to cause injuries.

MORE PHOTO LAB party-goers, cut off from photo at top of page. Festivities filled spacious room with laughter and gaiety as department Norcrafters and mates relaxed for evening. Heading Photo Lab is long-time Norcrafter Roy Wolford. Almost all Northrop News photos are taken by lensmen from Photo, are processed and developed by Lab.

Better Ways to do the Job



THREE-D TECHNIQUE in the Scorpion spaghetti department! Third dimensional idea is applied to harness board in Electrical and Instruments (5507). Night shift Norcrafters Madge Smith and Thelma Stephan are shown working on board, with occasional directions being supplied by Assistant Foreman Carl Engstrand, left. Harness boards are used by department in assembling circuits used in the Scorpion. Color-coded, they are easy to follow for new Norcrafters who may not have had training in reading blueprints that detail Scorpion electrical. At right are raised surfaces that make board "three-dimensional".



JIGS USED in Scorpion construction are sometimes complex-looking fixtures like the one night shift jig builders Ronald Chase and Douglas Owens are shown working on. This particular jig is for installation of jet wake fairing on the F-89; it is the master around which fairing section is built. Construction of jigs is one of the unsung but very necessary fundamentals to mass production of high performance aircraft.

A Merry Christmas

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, December 16, 1953

NRC Art Show on KTLA's Spotlight
—8 P.M.—JANUARY 5

NRC Santa Claus Parties Planned for "Juniors"

By NRC Reporter

After 12 long months of impatient waiting on the part of Northrop Juniors at Hawthorne, the big day of days is to arrive next Sunday, December 20.

Man-of-the-hour Santa Claus will be on hand at the NRC Clubhouse from 1:00 to 5:00 p.m., flanked by a stalwart staff of helpers from the Northrop Recreation Club.

All Northrop Juniors are invited to come to the Clubhouse sometime during the afternoon and have a word with Saint Nick. There will be gifts, candy and ice cream for all. As in the past Santa will have his favorite clowns along to help with the boys and girls.

Similar parties for the kiddies are being planned by Norcrafters from the outlying facilities.

Northrop Juniors at Anaheim will be visited by Santa on the same day, Sunday, December 20. Location will be Fox West Coast Theatre in Anaheim.

Saturday, December 19, is the day that Santa Claus will be passing through Florida, and he will stop off at the American Legion Hall in Eau Gallie to greet the sons and daughters of Norcrafters at Patrick.

Sunday, December 20—at Ontario Hangar #7—will be the date and location for Yule festivities when the Northrop Juniors will be given an opportunity to have a word with Santa Claus.

It's Merry Christmas Time—!

For sure.

Norcrafters' Holiday Pay Schedules

Norcrafters next week will begin their traditional year-end vacation when they leave for their homes at the end of shift on December 24.

For the vacation period—which ends at the beginning of the shift on Saturday, January 2—all eligible personnel on the payroll as of December 24, 1953, and not on leave, will get 40 hours' straight time pay.

Hourly Norcrafters will receive checks for the week ending December 20 and for the vacation period on Thursday, December 24; and on January 8 will get checks for the weeks ending December 27 and January 3.

Salaried personnel, meanwhile, on Christmas Eve will receive two checks, covering weeks ending on December 20 and January 3. On January 8, then, checks covering the week which ends on December 27 will be distributed.

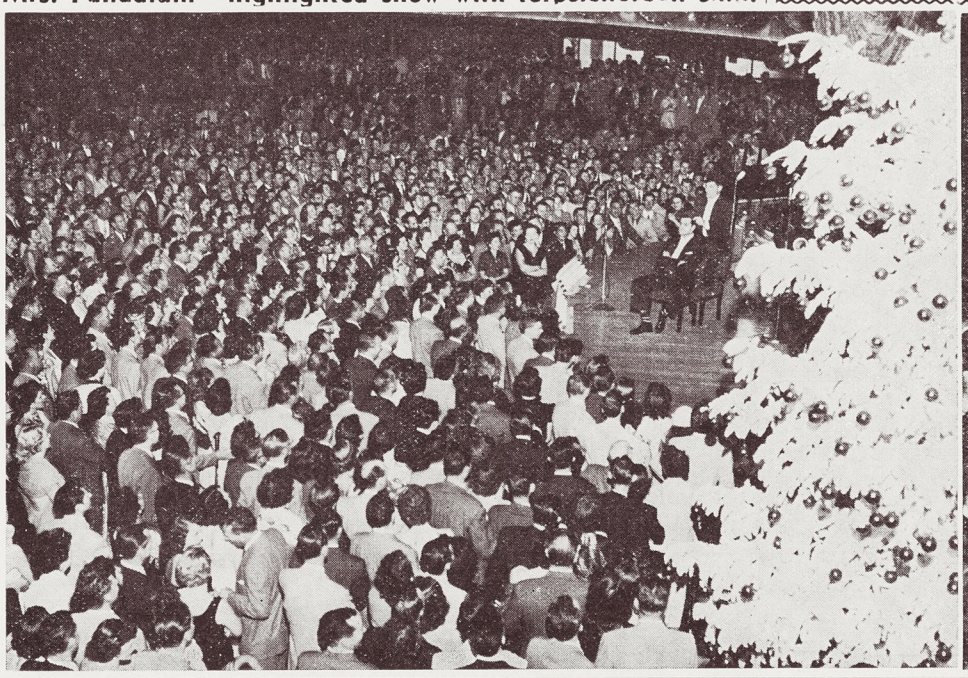
NEW GUN RECORDS BY 57TH

BLACK KNIGHTS OF THE AROOSTOOK SHOOT HIGHEST SCORPION SCORES

(See page 2)

Private Party Sell-out

OVER 6000 NORCRAFTERS assembled at the Hollywood Palladium for the first big annual NRC pre-season Private Party on Saturday, December 5. The party — biggest of all Northrop Recreation Club events—was televised from 10:30 to 11:30. At right, Norcrafter Eddie Johnson gives vocal. Our own Madelyne Cristelli and hubby Johnny—Mr. and Mrs. Palladium—highlighted show with terpsichorean skill.



and A Happy New Year!!

BLACK KNIGHTS OF THE AROOSTOOK! Crews of 57th Fighter-Interceptor Squadron line up proudly before one of their Scorpions at Yuma. Based at Presque Isle, Maine, squadron completed gunnery meet with flying colors, climaxing a rapid organizational build-up with 100 per cent qualification of pilots in marksmanship; top individual score; high squadron average. Scorpion maintenance record of 57th has been consistently high.

SCORPION HAS DEADLY STING

LIEUTENANT WILLIAMS RACKS HIGHEST SCORE

Individual and collective firing records fell by the wayside at Yuma recently when the 57th Fighter-Interceptor Squadron — the Black Knights of the Aroostook — completed gunnery sessions with F-89 Scorpions.

The 57th returned to its base at Presque Isle, Maine, with 19 pilots qualified in marksmanship of 19 who went to Yuma!

In addition, Lieutenant E. L. Williams hit a new high with the 20 mm. cannon of the C-series Scorpion, shading the previous top score of Major Richard L. Crutcher, C. O. of the 74th FI Squadron, also based at Presque Isle (see Northrop News, November 18, 1953).

The squadron average, Military Relations and Customer Service Norcrafters were advised, was the highest to date in the firing runs, which are now concluded until rocket firing begins sometime early in 1954 with D-series Scorpions.

The tow targets blasted by the Black Knights were the same as those used in previous runs at the gunnery area. They are banner-type targets, six feet by 30 feet in area.

Each airplane was loaded with only 10 per cent of its ammo capacity, and only two of the Scorpion's six cannon were used in firing. Simulated combat conditions governed the aerial sorties and ground operations.

A comparatively new organization, the 57th has made astounding progress in the few months since it received its first F-89s.

Headed by Major C. W. "Tex" Hanley, the outfit is composed largely of young officers and men, with only a sprinkling of experienced pilots as a nucleus.

Hanley, who has lengthy overseas experience behind him, formerly headed a squadron of F-80s in Okinawa. Operations officer of the squadron is Captain Robert Staton; and engineering officer is First Lieutenant John G. MacDonald.

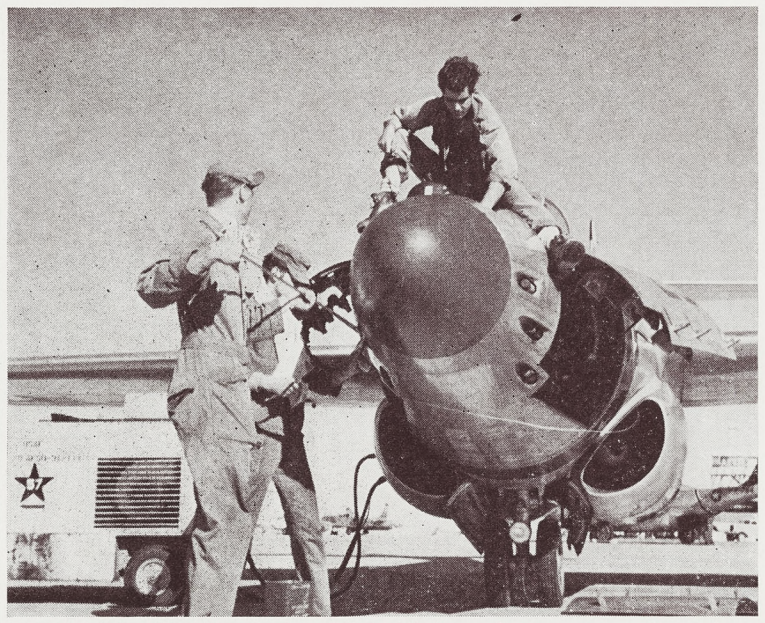
The "in-commission" rate of Scorpions in the 57th has been unusually high, reports showing a very high percentage of airplanes maintained in combat ready status. Credit for the fine showing in this respect, squadron members told Norcrafters who visited Yuma, belongs to Master Sergeant William C. Baker, line chief, and his crews.

The outfit has, in a relatively short time, worked up a tremendous esprit d'corps, several Norcrafters related, and competition between the 57th and the 74th is intense, especially since Black Knight pilots must taxi their Scorpions past the 74th hangars en route to take-off!

Northrop senior tech rep assigned to the 57th is Enzil Lightfoot; assisting him is George Wright. In the early organization of the outfit, the proficiency training team — Cliff Shelton, Tom Kelecy, Doug Marine, and Dave Weingart — helped out in the maintenance indoctrination of the squadron.

EAGLE EYE of the Black Knights in the Yuma firing was Lieutenant E. L. Williams, who used electronic equipment of his Scorpion—and services of R.O., Lieutenant E. J. Laftus—to run up high individual score, and top former high set by Major Richard Crutcher, of 74th Fighter-Interceptor Squadron.

BLACK KNIGHTS are headed by Major C. W. "Tex" Hanley as commanding officer. He is shown with Northrop tech rep Enzil Lightfoot at conclusion of one of firing sorties during which squadron qualified every pilot—19 of 19! Hanley is overseas veteran, his experience including command of an F-80 squadron in Okinawa. Tech rep assisting Lightfoot is George Wright; both are Knights' contact with factory.



GROUND CREW of the 57th Fighter-Interceptor Squadron swabs lethal 20 mm. cannon of Scorpion after gunnery flight. In sessions held at Yuma only two of the six guns were charged; and only 10 per cent of normal ammunition capacity loaded. Gunnery was last scheduled for C-series Scorpions; early in 1954 "Grand Slam" D-series F89s are slated to initiate rocket firing practice at unspecified base.

Northrop News
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JOHN B. CLARK, Director

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Palmdale Announcement Draws Heavy Response

A highly encouraging response, in the form of transfer data cards, has greeted the announcement of the opening of the new Northrop facility at Palmdale. The announcement, including request for interested Norcrafters to fill out data cards, was carried in the last issue of the Northrop News.

Cards received to date are being processed as rapidly as possible, Personnel Manager J. R. Willson has announced. Interviews to determine the first 100-Norcrafter force will be completed as early in January as feasible.

Willson advised Norcrafters who have sent cards that there will be a period of a couple of weeks before processing is completed and interviews are begun. He added that data cards were still being accepted; a supply is kept at the Transfer section of the Personnel department.

Scores of Norcrafters were reported to have visited Palmdale and Lancaster following publication of the announcement, and it is anticipated that many more will tour the Antelope Valley during the forthcoming holiday vacation.

PA&S OFFERS LICENSE TAB SERVICE BEGINNING RIGHT AFTER VACATION

Personnel Activities and Services will again this year secure plate tabs for Norcrafters and Air Force personnel from January 4 through February 3.

The requirement for the purchase of 1954 tabs is the potential registration slip received from Sacramento. Those who have not received this slip by January 20 may use the validated 1953 registration to secure tabs.

Norcrafters requiring change of ownership or transfer from out of state are advised to contact the Department of Motor Vehicles.

Tabs may be purchased from PA&S offices, Plants One or Three. Hours at Plant One will be: Monday through Friday, 11:00 a.m. to 1:15 p.m.; 3:00 to 4:30 p.m.; 8:15 to 9:45 p.m. At Plant Three: Monday through Friday, 11:00 a.m. to 1:15 p.m.; 3:00 to 4:00 p.m.

License tab sale arrangements at other facilities: Lynwood—plant superintendent's office, Monday, Wednesday, and Friday from 7:00 to 9:00 a.m., and Tuesday and Thursday from 4:00 to 4:45 p.m.; LAX—at Flight Service office on Tuesdays and Thursdays, 3:00 to 4:15 p.m.

At Ontario—daily from 11:00 a.m. to 12:30 p.m. and 8:00 to 8:45 p.m. in Personnel office; at Edwards—any time in Industrial Relations desk; and at Anaheim—any time at PA&S.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 2)
VIA RAMONA FREEWAY — Harbor Freeway — Figueroa — Santa Barbara — Crenshaw — Manchester — Prairie to Plant 1, Los Angeles. M. R. BUSTAMANTE (5162-451, Ext. 548), AN. 1-8970). (12-1-2)

(Zone 5)
LAKEWOOD CENTER. (Paramount Blvd. to Rosecrans to Prairie & Plant 1 or what have you? Will consider car pool), Lakewood. W. S. COMBS (5503-328, Ext. 2681). (12-1-5)

GARDEN GROVE — Manchester — Rosecrans — Crenshaw to Plant 2 (Can take 3 or 4), Garden Grove. P. E. BRANNON (5923-110, Ext. 1231). (12-1-5)

(Zone 9)
PRAIRIE & 164TH ST. (Would like to form or enter car pool), Lawndale. JOHN KANE (5164-26, Ext. 2071). (12-1-9)

(Zone 10)
RINDGE LANE OR VAIL AVE. (Will pick up on Vail or Rindge going by way of Manhattan Beach Blvd. and Hawthorne Blvd.), Redondo Beach. MARIAN WALTER (5352-44, Ext. 1508), FR. 4-2190. (12-1-10)

(Zone 12)
PEARL & LINCOLN. (Will consider car pool arrangement. I have a car but would rather have a ride), Santa Monica. MARION L. CODNER (5518-318, Ext. 1938). (12-1-12)

SEPULVEDA & 80TH. (Westchester. Will consider car pool), Los Angeles. E. R. SNYDER (5920-95, Ext. 2612 or 2613), OR. 2-7813. (12-1-12)

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 12)
LA TIJERA & SEPULVEDA, Los Angeles. D. ENJEM (5504-132, Ext. 1424), OR. 2-6528. (12-1-12)

(Zone 13)
CORBIN & SHERMAN WAY OR VENTURA. (Want to form car pool from west end of San Fernando Valley), Reseda. D. R. CHAMBERLAIN (5241-350, Ext. 2075). (12-1-13)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 3)
FLORENCE & ALAMEDA or Holmes & Gage. (Will consider car pool), Los Angeles. ALENE R. LAMB (1435-88, Ext. 2761), LA. 0428. (12-3-3)

(Zone 8)
WESTERN & LELAND (Route: Western to 190th St., left to Crenshaw Blvd. to Plant 3. Reverse route homeward), San Pedro. WM. MEADOWS (5621-29, Ext. 2208 or 1852), TE. 2-6660. (12-3-8)

(Zone 14)
LA BREA & 4TH ST. (Interested in car pool), L. A. 36. MARK A. STERN (3310-70, Ext. 477), WE. 1-5845. (12-3-14)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 1)
ALVARADO & SIXTH ST. (Olympic — Western — Florence — Prairie & plant), Los Angeles. HANK BREUER (7510-54, Ext. 2650), DU. 9-2683. (13-1-1)

Plant Two "Operation Space Conservation" Doubles Stockroom Capacity

MANUFACTURING CONTROL IDEA

Plant Two Manufacturing Control Norcrafters of Department 5338 have struck a solid blow in the cause of Mat Con by their development of an ingenious "Operation Space Conservation".

Working in a stockroom which serves Electro-Mechanical Laboratories (5900), the Norcrafters have almost doubled the storage capacity of their parts racks without expansion of area.

But increase in capacity was not the only result, John "Sandy" Sandstrom, supervisor of the group, reports . . . the Norcrafters in the stockroom now are able to provide faster service on parts requests; housekeeping has been made easier; and a running inventory is no job at all.

Smaller boxes for small parts, and the installation of a few tiers into existing racks provided the answer to overcrowded parts racks.

Bob Bauer, night-shift Norcrafter in the department, built the shelves; Enoch Taylor, Clarence Sarrail, and Alice Seibert worked out the details of labeling the new tiers and smaller boxes in a uniform manner.

Utilizing a three-tier and a two-tier shelf in each rack, the conservation-minded Norcrafters discovered that they could now fit 190 different parts into the space which formerly could hold only 98!

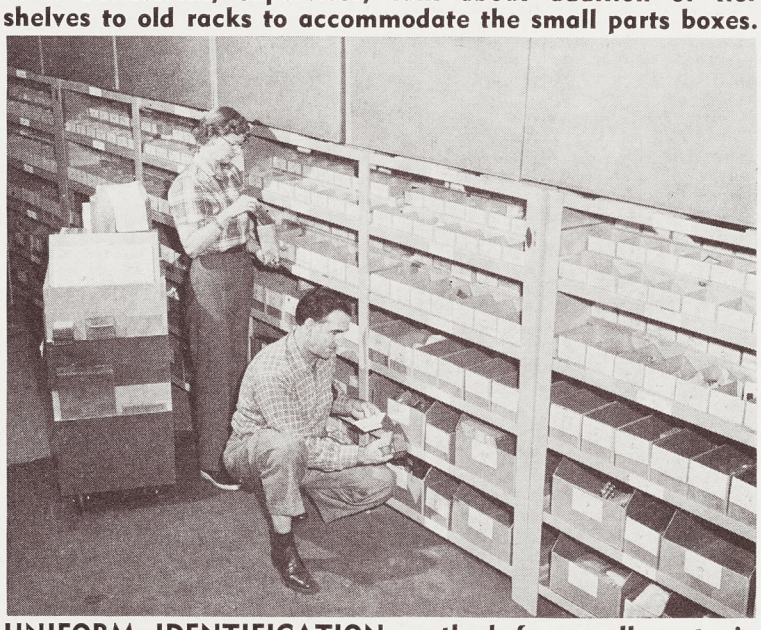
With 43 racks in the stockroom, 8170 parts now take up the same area that 4214 took before!

On cellophane overlays placed over parts numbers on the boxes the stockroom attendants mark with grease pencil the number of parts in the box. As they are removed it is a matter of only a few moments to rub out the former figure and jot down the new supply remaining. Thus, Norcrafters responsible for re-ordering are able to keep constant, accurate control over the supply.

Sandstrom was enthusiastic over the possibilities of the development in his department. Operations within the past few weeks, since the installation of the new tiers, have proved the efficiency of the system, he remarked.

Bauer, the night-shift department member mentioned, is a current member of one of Mat Con's night Safety-Conservation committees.

MANUFACTURING CONTROL Norcrafters in Plant Two stockroom discuss one phase of "Operation Space Conservation", which they recently developed to double storage capacity. Robert Bauer, left, night shift Norcrafter, and John Sandstrom, supervisor, talk about addition of tier shelves to old racks to accommodate the small parts boxes.



UNIFORM IDENTIFICATION method for small parts in racks was worked out by Norcrafters shown—Alice Seibert and Enoch Taylor—and by Clarence Sarrail (not shown). Method helps department keep accurate running inventory of parts in stock. Addition of tiers, use of smaller boxes help housekeeping while doubling capacity of the racks.

Increase In S S Tax Due In January

Norcrafters and the Company will both begin to make slightly increased social security payments in January 1954, when a deduction of two per cent (2%) replaces the present one and one-half per cent (1½%) rate.

The social security taxes paid by Norcrafters—as well as the matching contribution made by Northrop—are held in the Old Age and Survivors Insurance trust fund by the federal government.

The increase was scheduled in Social Security law amendments passed by Congress in 1950.

The new two per cent (2%) deduction will begin on the first payday in January, which, for Norcrafters, comes on January 8, 1954. The deductions are made on earnings up to $3600 per year.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 2)
VALLEY BLVD. & FREMONT. (Will trade rides or ride as passenger), Alhambra. GEORGE L. WILSON (Air Force, Ext. 1941), CA. 1-7781. (13-1-2)

(Zone 3)
FIGUEROA & MANCHESTER (Will take 2 or 3. Travel Vermont to Century to Plant 1. Will pick up riders at any convenient location along route) Los Angeles. MARVEL HALL (9350-17, Ext. 2298), PL. 2-3896. (13-1-3)

(Zone 6)
WILMINGTON & OLIVE, Compton. R. J. NICKELSON (5128-12, Ext. 1929 or 1961). (13-1-6)

(Zone 10)
HIGHLAND & MANHATTAN BEACH BLVD. (Interested in car pool or getting a ride), Manhattan Beach. ROBERT A. SCHWARTZ (5126-64, Ext. 2369).

(Zone 12)
LIVORNO & SUNSET BLVD. (Via San Vicente & 7th (Santa Monica) through Playa del Rey), Pacific Palisades. JOAN CLARK (5150-24, Ext. 2325). (13-1-12)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
AVALON & OLIVE. (Route: West on Olive & 161st St. to either Vermont or Normandie, then north to El Segundo), Gardena. CHARLES H. FOURNIER (3422-111, Ext. 1816), MEnlo 4-8787. (13-3-5)

ARTESIA & ATLANTIC (Mostly interested in getting in, or forming car pool), Long Beach. L. C. PLEGER (3360-28, Ext. 1506), L.B. 205060. (13-3-5)

(Zone 9)
SEPULVEDA & REYNOLDS — Sepulveda Gardens—(Only interested in car pool arrangements), Torrance. W. J. ODOM, JR. (3460-106, Ext. 2491), FR 5-5996. (13-3-9)

(Zone 10)
MANHATTAN AVE. & PIER AVE., Hermosa Beach. RALPH G. GAUT (3270-824, Ext. 1274), FR. 2-9880. (13-3-10)

(Zone 13)
CAMDEN & SANTA MONICA (Route: Wilshire — Robertson — Rodeo — La Cienega — Centinela — Prairie — Plant 3), Beverly Hills. JOHN M. ATKINSON (1810-22, Ext. 2675), CR. 6-3534. (13-3-13)

(Zone 14)
PICO & FAIRFAX or LA CIENEGA, or VENICE & FAIRFAX (Will accept car pool arrangement. Require ride at least 2 days per week but would welcome riding entire week), Los Angeles. J. S. BENDAT (3230-26, Ext. 1291 or 1876), WE. 1-8881. (13-3-14)

HOLLYWOOD & HIGHLAND, Hollywood. JAMES VAN CAMPEN (3140-30, Ext. 495), HO. 7-1597. (13-3-14)

7:30 a.m. — 5:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 14)
CRENSHAW BLVD. & RODEO RD. (Can travel Crenshaw Blvd. or 8th Ave.), Los Angeles. KAROLL SHURTZ (3120-21, Ext. 1689 or 1418), AX. 2-3692. (14-3-14)

(Continued on Page 6)

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

BUICK, 1948 super sedan, mechanic owned, every accessory, new clutch, brakes, and tires. Terms arranged—will take transportation car in trade or $175 down, SAM HIGHSMITH, OS 6-9164.

CADILLAC, 1941 4-door, as is, make offer—death of my husband forces me to sell for cash, at once. RUBY B. MACDONALD, OS 6-3647.

CHEVROLET, 1948, ½ ton pickup, four speed transmission, good condition throughout, heater and metal canopy, $575, H. W. JACKSON, FRontier 7-1074 after 5 p.m.

CHRYSLER Airflow, '37, overdrive, radio, car in very good condition, $100, VIC LEROUX, PL 6-2105.

FORD CONSUL, make offer for my equity in 1952 Ford Consul, very clean, 16,000 miles, 30 m.p.g., payments $37.76 per month, JACK HAUPENTHAL. Reply in writing to Northrop News, Box 1190.

FORD, '41 tudor sedan, green, good transportation, $195, PHIL SANCHEZ. Reply in writing to Northrop News, Box 1187.

BUICK, convertible, 1941, good running condition, excellent tires and radio, $125, LEN RENICK, AX 2-0991.

RADIO, Emerson table model with adaptor for RCA "45" record player and 75 "olde" records — $125 value, all for $40; FORD, 1940 deluxe with 1949 Lincoln engine, $395, BILL FRANKUM, AX 2-6119 or AX 3-6156.

GUNS, a private collection of military and early American side arms and rifles, sell reasonably. If interested, price on entire collection will be quoted after your inspection, MONTY MONCRIEFF, CH 0-2165 or RO 9-2511.

BANTAM CHICKENS, English Black Breasted, 1 rooster and 4 hens, ideal children's pets, $4, D. A. OGILVIE, OR 1-0162.

TRAINING CHAIR, girl's "Babyline" with detachable play shelf, good condition, $4, D. A. OGILVIE, OR 1-0162.

ELECTRIC MOTOR, Reuland 3 phase, 3 h.p., like new condition, cost $115, will sell for $80, ARNOLD G. HAMMERVOLD. Reply in writing to Northrop News, Box 1198.

BICYCLE, boy's Schwinn World Traveler, gear shift, generator, lights, hand brakes, metallic brown, good condition, $45, ARTHUR W. SCOGGINS, LO 6-8021.

FORD, 1948, 6 cylinder, radio, good rubber, new seat covers, runs good, $400, J. H. SHANKLAND, FR 2-5239.

MG 1952, MKII with radio and heater, original owner, E. T. HAMPTON. Reply in writing to Northrop News, Box 1194.

OLDSMOBILE "98" Holiday, 1953, every extra, $3550, R. B. SCOTT, AX 3-5916.

PLYMOUTH, 1950 maroon convertible, excellent condition, radio, heater, whitewall tires, $875, VERNON AVARITT, EX 8-5355.

PONTIAC 8, 1949, 2-door sedanette, Hydramatic-Duo-Matic drive, black, w/w tires, seat covers, in very good condition, a real clean car, will sacrificel $900, B. M. FRANKE, FRontier 4-0044.

ANTENNA TOWER, 35 ft., $20; "A" FRAME, 40 ft., $5; RECORD CHANGER, $10; Set of CODE RECORDS, $5; Carter DYNAMOTOR, $25; R. A. KEPPEL, PL 5-0850.

ROLLER SHOE SKATES, white, size 5B, worn only once, $20, M. A. D'ANNA, PL 2-8049.

FURNITURE for den or living room, ideal for family with children—Duncan Phyfe DAVENPORT and CLUB CHAIR, foot stool, covered with heavy 20-gauge plastic, custom-made, deep red, looks like new, $100; END TABLES and platform ROCKER, $15, MARY FORD, MEnlo 4-8662.

RAZOR, Sunbeam electric Shavemaster, #475 head, nice case, excellent condition, $10, F. CALCOTE, PL 2-9704.

HOUSE, Lawndale, 2-bedroom, 3 years old, large lot, fenced yard, two blocks to schools, 10 minutes to Northrop. $1500 down, full price $7500, S. J. WOODRUFF, OSborne 5-3416 after 5:00 p.m.

FOR SALE

RANGE, electric, $15; DINING TABLE, oak, round, $5; GAS HEATER, $2; JAMES M. MOORE, AXminster 2-3055.

SHAMPOO TRAY, pastel green, like new, all chrome fittings with spray attachment, sells for $62.50 when new, will sell for $35, WALTER A. KUEGEMAN, OSborne 6-9989.

FORD, 1950 deluxe club coupe, clean, excellent condition, newly rebuilt motor, dark blue paint, good rubber, spotlight, heater, etc. Need $300 for equity, balance in easy monthly payments of $38 to Bank of America, W. L. WARD, FRontier 4-6315, call after 5:00 p.m. and leave message.

AIRPLANE, one-third partnership in 65 h.p. Porterfield "Zephyr", excellent ship for student training, new prop and recent engine overhaul, good fabric, $145, C. A. "BUZZ" BROWN, PL 8-8747.

SLIDE RULE, Post 1449, with leather case, $5, F. G. EAGAN, WAlnut 8042.

STUDEBAKER V-8 Commander, 1951, 2-door sedan, full equipment, cash deal only $850, C. R. SAMMONS. Reply in writing to Northrop News, Box 1192.

PLYMOUTH 4-door sedan, $150, reliable 1939 transportation car, fine mechanical condition, tires, battery, heater and radio all in good shape, freshly relined brakes. This dependable second car has thousands of miles of transportation left and will save wear and tear on your 1953 pet, J. D. WILLSON, AR 3-6555.

HOUSE—Manhattan Beach, 3-bedroom, garbage disposal, patio, large yard, 2-car garage, newly decorated, paneled living-room and den, service porch, for sale by owner, call after 5:00 p.m. $9850, FR 4-6547.

HOUSES, two 2-bedroom, quick sale arrangements possible; STORE BUILDING with 4-room living quarters—death of my husband forces me to sell for cash, at once, RUBY B. MAC DONALD, OS 6-3647, before 3:00 p.m.

HOUSE with 2 large bedrooms, hardwood floors, disposal and many extras, detached 2-car garage, young orchard in, property landscaped and fenced, near schools and shopping, Redondo Beach, price reduced for early sale to $8700, terms available, JOHN F. BAZYK, FRontier 2-7300.

HOUSE TRAILER, 35' Terra Cruiser, beautiful condition inside and out, 12-foot living room, bath, disposal, sectional divan in living room, oil heat conditioner, terms arranged, $675 down, or up to $300 car or pickup and cash, SAM HIGHSMITH, OS 6-9164.

ELECTRIC RANGE, 1948 Frigidaire, 3 burners and deepwell, one oven and large storage drawer, excellent condition, $50, J. F. KATENKAMP, FR 7-1296.

COUCH—3-strand rattan, new-looking, upholstery is gray, yellow and green, bird of paradise pattern on red background, folds flat into a double bed, has space underneath for blanket storage, $60, RALPH E. KNOWLES, FRontier 2-9365.

BICYCLES, two 26" boy's, excellent, look like new, J. R. MORLEY, VE 8-9295.

MOVIE CAMERA & PROJECTOR, Keystone, 8mm, $75; Hawaiian ELECTRIC GUITAR with amplifier, $50; Horton MANGLE, table model, $25; 12" aluminum body MIDGET RACER, $10, DON CARLBERG, OSborne 6-4752.

FORD, 1947 4-door sedan, tires, engine and body in very good condition, one owner, 42,000 miles, $450, AL AGUIAR, FR 5-6644.

SCOOTER, Cushman, 1946 model with transmission, $65, J. A. HARTINGER, OR 7-3801.

DINING ROOM SET, 8 pieces—table, buffet, 6 chairs, upholstered seats, light oak, good condition, $50, P. DEVONISH, OR 1-0127.

BICYCLES, two girl's, 26" size, good tires, recently reconditioned, $15 each, E. F. LOWEKE, OS 6-0656.

CORNER CABINET, maple stain, $10, KATHLEEN EMGE, PL 3-6744.

TRAIN SET, Lionel electric freight, model 1501S, recently purchased, never used, includes smoke pellets, remote uncoupler, transformer, etc., cost $24.95, will sell for $22.50, RALPH MOODY, STate 0-9824.

COATS, 2 girl's, size 8, navy blue, excellent condition, good quality, $8.50 each, KATHLEEN EMGE, PL 3-6744.

FOR SALE

BICYCLE, Monarch super deluxe, maroon with gold trim, chrome rims, white side walls, 26" wheels, special handle bars, excellent condition, like new, MAL MOUNTAIN. Reply in writing to Northrop News, Box 1189.

FUR COAT, black full length, like new, size 9 to 11, make offer, RUBY B. MAC DONALD, OS 6-3647.

VIOLET RAY LAMP in leather zipper case, like new, half price — $39.95; SHOE ICE SKATES, women's size 6, $3.95; COAT, women's size 10, all-wool red shortie, never worn, $9.95, ROBERT M. SEELEY, Long Beach 392927.

FORMALS—1 pink and 1 yellow, worn only once, size 9, $15 each, E. F. LOWEKE, OS 6-0656.

STOLE, white, hand knit, triangular, 4-inch white and gold fringe, ideal Christmas gift, make offer, ARDITH MITCHELL, PL 8-6354.

GARAGE DOOR, 7' x 9' aluminum, like new, hardware—complete; original cost $72.50, price $40, L. MASON, EXbrook 6-7670.

BATHINETTE, aluminum, $6; PLAY PEN, $5; KATHLEEN EMGE, PL 3-6744.

VIOLIN, orchestral instrument, excellent tone and condition, $40, E. F. LOWEKE, OS 6-0656.

FRY-RITE, deep fat fryer, used less than half dozen times, in A-1 condition, just like new, $20, JOSEPHINE C. BECK, DUnkirk 8-7214.

SMALL LOT in Los Angeles, next to Arroyo-Seco Freeway, 5 minutes from downtown, have survey and contour drawings—or trade as down payment on small house, garage house, or business building, $500, N. C. HALE. Reply in writing to Northrop News, Box 1188.

FORD, Model A, $85, or will trade on airplane; 4 purebred California DOES and 1 BUCK, all for $15, H. WEINSTEIN, FR 2-4474.

MOTORCYCLE, 1949 Indian, vertical twin, four speed foot shift, amal carburetor $149, or trade for ?, E. J. SANTORO. Reply in writing to Northrop News, Box 1196.

MOTORCYCLE, '51 Matchless Twin, very good condition, will sell or trade for cement work in back yard or landscaping, $375, P. P. MARTY, VErmont 8-8420 days, FR 5-2460 evenings.

DRAFTING TABLE, 3' x 4½', fully adjustable for height and tilt, $25 or will trade for smaller table, G. R. CLARKE, FRontier 5-2097.

HOUSE—cozy little cottage in mountains near Palmdale for sale or rent, furnished, GEORGE B. MORRIS, OSborne 6-5198.

CHRYSLER 1938 4-door sedan, FORD 1939 4-door sedan, D. J. SNYDER, FA. 8-3253. A

WAC SHIRTS and SKIRTS—both cotton and woolens, should be suitable for some girls for work, size 14 or 16, price to agreement, ALMA MILLER, PLeasant 1-5667. A

SPEED SKATES, men's, size 7, white shoes, good condition, used only a few times, CHARLENE CRITCHLOW, OS. 5-1285. A

PLYMOUTH, 1951 two-door sedan, original owner, $895, D. E. PETERSON, OR. 2-7694. A

INCINERATOR, used 2 months, $2, C. RODRIGUEZ, CHarleston 0-1527. A

KITTENS, beautiful blue point Siamese, for Christmas, show winners, sired by champ, $35 to $50, RICHARD L. WILSON, ME. 3-1371. A

TELEVISION SET, Stromberg Carlson 10" table model, good working condition, $25, BEA WAND, OS. 6-5061. A

ELECTRIC MIXER, Knapp Monarch 10 speed, juicer attachment, adjustable bowl turntable, like new, $17.50, A. M. JANASIK, FA 8-0612. A

HOUSE, by owner, 2-bedroom stucco, service porch, garbage disposal, tile, patio, weather-stripped, fenced, nice yard with fruit trees, low down payment, $8100, W. VON PRILLWITZ, ME 4-7276. A

CHEVROLET, 1940, 4-door, nearly new tires, excellent mechanical condition, price $250, E. THOMAS. Reply in writing to Northrop News, Box 1113. A

ELECTRIC HEATER for bath room wall, chrome front, $5, F. E. SHERLEY, TOrrey 3-1091. A

PONTIAC '41 sedan, transportation car, $75, K. A. LAMM, EXbrook 9-1870. A

TRAIN, "American Flyer", includes accessories consisting of 1 engine and coal car with smoke and choo-choo sound effect, 5 various cars, 3 couplers, 1 crossing, 2 transformers, 4 bridges, 1 pair remote control switches, 2 bumpers, and 55 feet of track. Cost over $100, set up and used only 8 times, all in new condition and in original boxes, all for $70, PAUL WARREN, ORchard 2-2343. A

CAMERA, Argus C-3; Argus 200 SLIDE PROJECTOR, like new; miniature grandfather CHIME CLOCK, CUCKOO CLOCK, Aircraft LUGGAGE, 16" Philco TELEVISION and antenna, L. E. PUGSLEY, FRontier 5-2097. A

FOR SALE

RIFLE, Winchester model 62, hammerless .22 long, nearly new, very clean, good condition, make reasonable offer, K. L. FELIX, ME 4-0107. A

HAIR CLIPPING SET, Sears brand, purchased at plant store, original cost $14.95, used once, nothing wrong with them but my technique, $7.50, JOHN F. KATENKAMP, FR 7-1296. A

FORD 1941 club coupe, mechanically perfect, clean inside and out, $165, RUSS LE VESQUE, EX 7-3004. A

TYPEWRITER, Remington Quiet Riter portable, latest, $89, retails for $115, A. BROWN, ORchard 2-5409. A

HOUSEHOLD FURNISHINGS—4 complete rooms, including new Hollywood bed, Norge refrigerator, Western Holly Range, two rugs, lamps, pictures, appliances, etc., $300 complete. House will be available for rent in Santa Monica, call private party selling, I. J. BURTON, EXbrook 6-8503. A

RIFLE, Remington, model 721-30-06, Weaver K2.5 scope, pad, sling, case, shells, like new, $172 value, $120 cash, BILL NEWMAN, OS 6-4841. A

BOAT, 22-foot, sport-fisherman, Jefferies type hull, Chrysler Ace marine engine, any reasonable offer considered. J. A. RICHARDSON. Reply in writing to Northrop News, Box 1112. A

TRAILER, 2-wheel, enclosed bed, approximately 3½' x 8' x 3', 2 good tires with spare, rear light, licensed and registered, $75, W. A. WANDERER. Reply in writing to Northrop News, Box 1111. A

HOUSE, 1 year old, 2-bedroom, completely fenced, half block to 6th grade school, three blocks from proposed major shopping center, 15 minutes to all southwest industries, $7900 with $1,000 down, WINIFRED STOKES. Reply in writing to Northrop News, Box 1199. A

STUDEBAKER, Commander, late '48 Starlite club coupe, low mileage, good tires, new two-tone color, radio, heater, overdrive, etc., $650, terms can be arranged, NORMAN PARRISH, P.O. Box 382, Lawndale, California. A

PISTOL, P-38 and box of SHELLS, $40; CLARINET, ebonywood Pedlar B-flat, $65; TIRES, three 6-ply 6.00-16 commercial heavy duty, nearly new, $15 each. ROBERT L. WILLYARD, OS 6-5304. A

DEEP FREEZE, International Harvester, deluxe 19.9 cu. ft., like new, equipped with heat alarm system, $300 full price, ROY HUNTER, FR 2-4071. A

TROPICAL FISH and two TANKS, built into cabinet, ten gallon in top and five gallons in bottom, includes pump and filters, $40 cash, E. M. ATHAY, jr., PL 2-3571 evenings. A

FREEZER, 18½ cu. ft. upright, one year old, like new, each shelf individual freezing unit, $260, J. WARNER JONES, VE 9-4676. A

COFFEE TABLE, walnut, 35" x 18", heavy glass top, like new, $10, J. McCARTHY, RE 3-2820. A

MOTOR SCOOTER, Salsbury, very good condition, $85, GINNY THOMPSON, OSborne 5-1336. A

PARAKEETS, all colors, rare and normal, nice Christmas gift, $5 each and up, ANITA M. PATEY, TOpaz 9-6701. A

WHITE SUIT, man's, like new, good for New Year's Eve party, etc., waist 30", length 28", $10, ANTHONY F. JERZYK OS 5-4825. A

WASHER, Allied wringer-type, $15, CLAUDE BOYNTON, OR 1-2478. A

FOR SALE

SHETLAND MARE, black and white, due to foal in 6 weeks, beautiful pony, excellent child's pet, broke to harness and saddle, $250, ANITA PATEY, TOpaz 9-6701. A

FORD '42 ½ ton panel, 4-cylinder, excellent condition, $150, W. D. NEVIN. Reply in writing to Northrop News, Box 1103. A

BED AND MATTRESS, ¾ size roll-away, very good condition, near new, $20, K. L. FELIX, ME 4-0107. A

OIL HEATER, large, with fan, $15; 1" D geometric DIE HEAD, $35; Allison COLLET CLOSER with 13 collets, $35, W. A. S. DOUGLAS, MEnlo 4-5080. A

LOT, 62' x 330', in Fontana, $895, terms if desired, W. GWYN. Reply in writing to Northrop News, Box 1109. A

PROPERTY, 5 acres northwest of Lancaster, $1495, low down payment, W. GWYN. Reply in writing to Northrop News, Box 1104. A

FISHING BOAT, at Wilmington Harbor, ready to go, $3500 or trade for real estate of equal value, E. G. SIMONET, LYcoming 9-4294. A

ARMY TRUCK—half ton weapons carrier, open bed pick-up, 1942 Dodge, will trade for lumber, binoculars, camping equipment, lapidary facer, $125, E. E. STORM, PLymouth 4-6102. A

TIRES, Crosley—one like new $10.50, one new retread $3, both $12.50, will trade for 6:70-15 or 5:25-16, JAMES McKINLAY, HO 4-1066. A

HOUSE—4 units, 1 duplex, 2 singles, garages, North Hollywood, want property in Inglewood, Hawthorne, Lawndale area, $22,500, W. C. NEWMAN, OS 6-4841. A

PACKARD, 1949 4-door, model 2372, black, radio, heater, overdrive, Electramatic clutch, seat covers, 40,000 miles, well taken care of, $895, or will trade for FORD or CHEVROLET. Can be seen days as I work nights, DON O. MOHR, jr. Reply in writing to Northrop News, Box 1108. A

WRITER'S MANUALS, 7 volumes; 10 volumes of supreme publications most often needed, radio and TV diagrams; 10 volumes of Sam's Photofact SERVICE MANUALS, make offer, GUY M. SABA. Reply in writing to Northrop News, Box. 1118.

FREEZER, Carrier, 22 cubic feet, used eight months, excellent condition. Take over payments of $29.83 per month for twelve months, make an offer for equity. TERRY ADSITT, NE 8-5904.

PUPPIES, boxer mix, all black with white feet, chest and tip of tail, will hold till Christmas, excellent for the kids, $5, GEORGE ARNOLD, OS 6-6062 after 4:00 p.m.

CITROEN, 1939, major engine and transmission overhaul 2000 miles ago, good body, new paint 1 week ago, $450, R. HANEY, OS 6-0812.

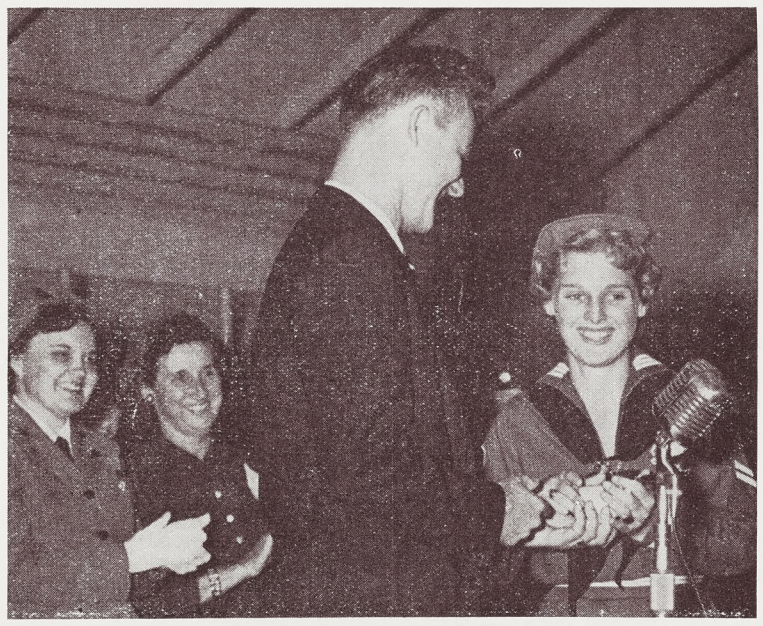
RANGE, late model Caloric kitchen range, $40; SINGLE SINK, WASHBOWL, BEDS, double and rollaway; COUCH and CHAIR, unmatched; dropleaf TABLES, DRESSER, Youngstown Kitchenaider double SINK; reasonable, B. E. HICKS, OS 6-5000.

SCOOTER, Cushman, 1948, good condition, $75, WILLIAM BUHL, OS 5-2628.

RUG and PAD, 9x12; two piece LIVING ROOM SET, sofa and chair; KENNETH K. KLIER, FR 4-5063 (neighbor's).

(Continued on Page 5)

Outstanding Mariner



ANNUAL NRC SERVICE AWARD sail boat trophy is presented to Dallas Metzger for outstanding service to the ship by NRC Veep Joe Carver. Dallas, daughter of Norcrafter George Metzger, received trophy at NRC Mariners Bridge of Honor held recently at NRC Clubhouse. Over 200 Mariners, Sea Scouts, Explorer Scouts attended the affair.

NORCRAFTER VERA RIDEOUT (left), shown on bow of her 25-foot ketch "Chelan" prior to shoving off for seven-year world cruise, is interviewed by Northrop News Reporter Jean Doran. Vera will be first woman to make the cruise alone. She has dreamed of the voyage all her life and has seriously planned it since she purchased the Chelan 11 years ago.

Lady Norcrafter Starts 'Round the World - Alone!

From typist to sailor, for a seven-year world cruise, is the story of Lynwood Norcrafter Vera Rideout, who was due to set sail in her 25-foot ketch "Chelan" from San Pedro sometime last week.

Vera, 46, was born on Lake Chelan in Washington, and has all her life planned to sail around the world. She will be the first woman who has ever made the world cruise alone. It is not, however, Vera's first sea voyage. She was shipwrecked in the New Hebrides in 1948 after eight months on the water when she sailed with the famous yachtsman Harry Pidgeon and his wife aboard their 34-foot Islander.

Vera's explanation for sailing alone is simply that she wants to go when and where she wants to. Her idea is to see not what the average tourist does, but to mingle with the natives and to be free to take extended inland trips whenever she desires.

Dimensions of the Chelan are 25′ 10½″ overall length; 8½′ beam; 4½′ draft. The purchase price 11 years ago was $2500.

Vera has lived aboard the 25-footer to save rent money to put in fittings that would take her around the world. She has spent $8000 getting it in condition.

Vera is not only adventurous in leaving what might be termed an average or normal life for the seven seas—she is somewhat of a financial adventurer too.

She is shoving off for Costa Rica on the first leg of the voyage with only $50.

She has a camera and some reference books—and plans to make her living by giving illustrated lectures along the way.

She had hoped to have enough food supply to last for six months when she left San Pedro, but she ran out of money before the shopping was completed. Most important item of the food shortage was fruit and citrus juices.

The Chelan is equipped with two stoves—a kerosene one for cooking and a wood stove for heating. Vera left without a radio or auxiliary engine, not to mention the lack of firearms of any type. The absence of an engine is by choice; however, she would like very much to have a gun, a radio and an 8 or 9-foot double-ender skiff to lash on deck.

After her stop at Costa Rica, she'll take her small ketch through the Panama Canal into the Caribbean for the winter months. In the spring, she'll return to the Pacific and head for the warm seas around Tahiti, the Samoans and other South Pacific areas.

Friends, well-wishers and supporters can first contact Vera at the following address:

Vera Rideout
Yacht Chelan
Balboa Canal Zone
Panama

ANXIOUS TO SHOVE OFF after long wait for big adventure to start, Vera tells of her plans to sail the seven seas. Pic was taken during fitting out stages; deck will be in apple-pie order when she leaves San Pedro for Costa Rica on the first leg of voyage. Vera's most prized possession is brand new Navy compass she obtained—see cockpit edge, right.

BBSF Classifieds

(Continued from page 4)

FOR SALE

VENETIAN BLINDS, rust proof, 1—75" wide x 66" long, $6; 2—22½" wide x 40" long, $2 each; 2—11" x 72", $1.25 each; 2—38" x 50", $2 each; 1—84" x 75", $7; 2—18" x 48", $1.50 each; 1 door blind 2′ x 6′8", $3; 1 door blind 2⅛′ x 6′8", $5; all good condition, HAZEL STEWART, ORchard 1-6945.

CAMERA, Nikon, 35 mm, 36-exposure, built-in view finder and range finder, 2 minute-1/500 second shutter speeds, 1:2f-5C.M. coated lens, like new, genuine leather case and shoulder strap, $360 value, will sell for $125, PAUL E. FLAMING, OS 6-1985.

RADIO, Zenith transoceanic portable, like new, original batteries, one year old, $75, HELEN LILLYWHITE, FA 8-2323.

HOUSE, Redondo Beach, one year old, 2 bedrooms, hardwood floors, venetian blinds, garbage disposal, fenced yard, 50′ x 100′ lot, patio, barbeque, close to bus, schools, shopping center and 15 minutes from Northrop; $2000 down, balance $6268.25 in $60 month payments, MARIE SPATA, HOllywood 9-9322.

OUTBOARD MOTOR, 7½ h.p., Scott-Atwater, like new, or will trade for small DeWalt saw, MARIAN B. WALTER, FR 4-2190.

TRANSMITTER, Harvey-Wells TBS-50C, $80; Gonset Triband CONVERTER, $30; Gonset 3-30 CONVERTER, $20; PE-103 DYNAMOTOR, $20; BC-455 40 M RECEIVER, $10; R5A-ARN/7 COMPASS RECEIVER, $30; Mobile ANTENNA MOUNT (bumper spring), $2; MOBILE ANTENNA with coils for 80 M and 20 M, $5; very good condition. All for $175, or will trade for Johnson Viking 2 transmitter and Morrow 5 band converter, WM. J. ENGLISH. Reply in writing to Northrop News, Box 1117.

ELECTRIC RANGE, 1950 model, automatic, full size, push button, excellent condition—will trade for household furnishings such as drapes, beds, chests, etc. or what have you? Make offer, CLIFFORD B. VIRAK. Reply in writing to Northrop News, Box 1115.

USED CLOTHING, sizes 12 and 14, ANN CASNER, OR 2-7436.

WANTED TO BUY

TV SET, small screen, used, in working condition, L. L. BALSAM, ARizona 8-4784.

TIRES, new or nearly new, 6:00 x 16 or 7:60 x 15, H. C. KLINE, AX 2-4146.

MITRE BOX and SAW, want good brand—Stanley, Millers Falls, Langdon, Acme, etc., C. W. SEXTON, OS 6-4449.

FISH AQUARIUM, 10 or 15 gallon, and equipment, DONIE GRAHAM, NE 2-2600.

SKIS and POLES for 6′ 3" man and 5′ 5" girl, toe post bindings preferred; also SKI RACK for convertible coupe, RICHARD G. McGANDY, NEwmark 5-4221.

PIANO—Must be cheap, MELVIN GORDON. Reply in writing to Northrop News, Box 1193.

PUPPY, pure bred beagle, for Christmas, 6 weeks or older, with papers, JOHN M. ATKINSON, CR 6-3534.

GARAGE DOORS, used, 7′ x 7′ opening, JAMES G. BURKE, sr., ORchard 1-1992.

GUITAR, Spanish, must be cheap, J. S. ARMSTRONG. Reply in writing to Northrop News, Box 1102. B

ELECTRIC TRAIN with switches and transformer, approximately 15 feet of track, needed for Christmas, suitable for children 4 and 6 years old, A. M. JANASIK, FA 8-0612. B

PHONOGRAPH, old electric, must be reparable if not in working condition, size immaterial, T. J. ESTERBROOK, OS 6-8444. B

CAR HEATER, Southwind, used or new, J. R. BOYLE, PL 3-0970. B

SLED or TOBOGGAN to be used for informal winter sports in the mountains, ROBERT E. ANDREWS. Reply in writing to Northrop News, Box 1105. B

FOR TRADE

WILLYS, 1937 pickup, factory steel bed, good tires, good running condition, will trade for 8 mm camera and projector, G. PRESLEY, EDgewood 7-8885.

SMALL LOT in Los Angeles, next to Arroyo Seco Freeway, 5 minutes from downtown, have survey and contour drawings, or will trade as down payment on small house, garage house, or business building, $500, N. C. HALE, Reply in writing to Northrop News, Box 1188.

FOR TRADE

FORD, Model A, $85, will trade on airplane; 4 purebred California DOES and 1 BUCK, all for $15, H. WEINSTEIN, FR 2-4474.

MOTORCYCLE, 1949 Indian, vertical twin, four speed foot shift, amal carburetor, $149, or trade for ?, E. J. SANTORO. Reply in writing to Northrop News, Box 1196.

MOTORCYCLE, '51 Matchless Twin, very good condition, will sell or trade for cement work in back yard or landscaping, $375, P. P. MARTY, VErmont 8-8420 days, FR 5-2460 evenings.

DRAFTING TABLE, 3′ x 4⅓′, fully adjustable for height and tilt, $25, or will trade for smaller table, G. R. CLARKE, FRontier 5-2097.

FORD CONSUL, 1952, very clean, 16,000 miles, payments $37.76 per month, 30 m.p.g. Will trade my equity for a clean 1947 Ford, Chevrolet or Plymouth, 2 or 4 door, JACK HAUPENTHAL. Reply in writing to Northrop News, Box 1191.

MG, MKII 1952, with radio and heater, original owner, will trade for older car plus cash, E. T. HAMPTON. Reply in writing to Northrop News, Box 1195.

FISHING BOAT, at Wilmington Harbor, ready to go, $3500 or trade for real estate of equal value. E. G. SIMONET, LYcoming 9-4294. C

ARMY TRUCK—half ton weapons carrier, open bed pick-up, 1942 Dodge, will trade for lumber, binoculars, camping equipment, lapidary facer, $125, E. E. STORM, PLymouth 4-6102. C

TIRES, Crosley—one like new $10.50, one new retread $3, both $12.50, will trade for 6:70-15 or 5:25-16, JAMES McKINLAY, HO 4-1066. C

HOUSE—4 units, 1 duplex, 2 singles, garages, North Hollywood, want property in Inglewood, Hawthorne, Lawndale area, $22,500, W. C. NEWMAN, OS 6-4841. C

PACKARD, 1949 4-door, model 2372, black, radio, heater, overdrive, Electramatic clutch, seat covers, 40,000 miles, well taken care of, $895, or will trade for FORD or CHEVROLET. Can be seen days as I work nights, DON O. MOHR, Reply in writing to Northrop News, Box 1108. C

CHEVROLET, 1937 coupe, good condition, will trade for scooter or light motorcycle, EUGENE J. KIMLING. Reply in writing to Northrop News, Box 1107. C

BAND SAW, 12" Pabst, motor, blades, will trade for tank type vacuum cleaner, BILL NEWMAN, OS 6-4841. C

OUTBOARD MOTOR, 7¼ h.p., Scott-Atwater, like new, will trade for small DeWalt saw, MARIAN B. WALTER, FR 4-2190.

TRANSMITTER, Harvey-Wells TBS-50C, $80; Gonset Triband CONVERTER, $30; Gonset 3-30 CONVERTER, $20; PE-103 DYNAMOTOR, $20; BC-455 40 M RECEIVER, $10; R5A-ARN/7 COMPASS RECEIVER, $30; Mobile ANTENNA MOUNT (bumper spring), $2; MOBILE ANTENNA with coils for 80 M and 20 M, $5; very good condition. All for $175, or will trade for Johnson Viking 2 transmitter and Morrow 5 band converter, WM. J. ENGLISH. Reply in writing to Northrop News, Box 1117.

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RENTALS OFFERED

SLEEPING ROOM, nice, clean, gentleman preferred, $7 per week, R. J. VASELEW, PLeasant 2-1152.

HOUSE—cozy little cottage in mountains near Palmdale for sale or rent, furnished, GEORGE B. NORRIS, OSborne 6-5198.

DUPLEX, unfurnished, 2 bedroom, Bendix washer included, large fenced-in yard, garage, children O.K., near Western and 165th St., Gardena, $70, H. FARRINGTON, PL 5-8158.

ROOMS, private entrance, private bath, one block from center of Gardena, possible transportation to Northrop 7:30 to 4:15 or 5:15, CAROLYN WILSON, MEnlo 4-3084. E

HOUSE in central Hermosa, three blocks from beach and center of town, 4 rooms, one large bedroom, kitchen, living room, and den with built-in bar, one car garage, full lot. Call FR 2-8281 after 5:330, HENRY FIEDLER. E

RENTALS OFFERED

ROOM, large, solid oak floor, clean, phone after 8:00 p.m., $10, MILTON E. O'KELLEY, MEnlo 4-5059. E

ROOMS, single or double, private entrance, kitchen privileges, off street parking, clean, new, in Lawndale shopping center, 10 minutes to work, ride, B. E. HICKS, OS 6-5000. E

ROOM, nicely furnished, in modern home, includes garage, no other roomers, 20 minutes from plants, Manhattan Beach, call Mrs. WATTS, FRontier 2-7465, after 6:00 p.m. E

ROOM for two men, day workers, private master bath, private entrance, twin beds, double closets, new home, $8 each per week, GLENN E. SMITH. Reply in writing to Northrop News, Box 1106. E

ROOM for man, adjacent to bath, furnished, five minute walk to Plant III, $7 per week, D. D. GRANT, OR 8-9701.

RENTALS WANTED

APARTMENT for one person, furnished or unfurnished, in central location. Not over $55 per month. Call after 5:00 p.m., ALBERTA McBETH, FRontier 4-6547.

HOUSE, six rooms with 3 bedrooms, also with yard, not over $75 per month, GEORGE W. SANDBERG, REpublic 1-3597.

HOUSE OR APARTMENT, one or two bedroom, fenced back yard, somewhere in Lawndale or Hawthorne, have one boy and dog, will pay up to $65 a month, E. S. HUBERT. Reply in writing to Northrop News, Box. 1197.

HOUSE, unfurnished, two bedroom, fenced or partially fenced yard, must accept one child and pets, prefer location in Inglewood, Lennox, Hawthorne or reasonably close to Northrop, will pay to $80 plus utilities, must give one month notice at present address, MILLIE PREWITT, ORchard 2-0824 after 5:00 p.m. F

HOUSE or APARTMENT, 1 bedroom, furnished, near Northrop or vicinity, ILA M. PATTERSON, OR 1-2062 and leave message. F

APARTMENT or HOUSE, two bedroom, with garage, have children, not more than $65 per month, FRANK E. QUINN, PL 1-8791. F

CHILD CARE OFFERED

CHILD CARE to 4 years of age, in my home, $12.50 weekly, seven years nursery school experience, Compton area, ALICE TENNYSON, NE 8-4757. G

CHILD CARE—I would like to care for two children in my home, age 2 to 5 years old, very convenient, lots of toys, etc., 5 days only, $10 first or second shift, OS 5-4825. H

LOST

CAT, blue-grey maltese, lost in vicinity of 247th Street in Lomita. Reward offered for information leading to her recovery. BETTY JOHNSTON, ORchard 2-8351.

PERSONALS

HOME LAUNDRY, free pickup and delivery, washing and ironing done reasonable—phone any time day or night, OSCAR JONES, jr., NE 8-1456.

ACCORDIONS repaired, work guaranteed, LINO RIZZARDI, YUkon 325-585.

RIDE WANTED with person going straight through to Seattle during Christmas holidays and coming back, will share gas expenses and take turns driving, RICHARD E. HUBBARD. Reply in writing to Northrop News, Box 1100. L

RIDE WANTED to Detroit or Chicago or vicinity, round trip or one way, leave December 24 and return January 3, share expenses and driving, L. E. CONRAD. Reply in writing to Northrop News, Box 1110. L

RIDERS WANTED to share expenses to Baton Rouge, Louisiana, during Christmas vacation, DON ALFORD. Reply in writing to Northrop News, Box 1116.

RIDER WANTED to share expenses to anywhere in central Texas, one way or round trip via private owned twin-engined aircraft, leaving from Hawthorne Airport December 19 a.m. and return Jan. 1 or 2. Approximately $50 one way—$90 round trip, depending on destination. For information call MILLIE PREWITT, ORchard 2-0824 after 5:00 p.m.

RIDERS WANTED—Driving to Dallas and Houston December 24. Invite two or three Norcrafters to go along and share expenses, JOE R. CAPPS. Reply in writing to Northrop News, Box 1114.

RIDERS WANTED—two riders to Phoenix, Arizona, leaving December 24 after work, share expenses, GEORGE MALLORY, OS 6-6648.

GOING MY WAY

(Continued from Page 3)

RIDES OFFERED

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 2)
GRIFFITH AVE. & 18TH ST. (Would like to have 3 or 4 riders on the east side), Los Angeles. ALFONSO COLEMAN (5587-690, Ext. 1973), RI 4049. (18-1-2)

(Zone 3)
GARVEY AT PUENTE BLVD., Puente, Azusa, Covina area (Would like to exchange rides, alternating cars weekly), West Covina. GEORGE R. PRESLEY (5587-217, Ext. 1947), Edgewood 7-8885. (18-1-3)

(Zone 4)
CENTRAL or AVALON BLVD. & 108TH, Los Angeles. MACK BLACKSHIRE (5534-407, Ext. 2244), LO. 5194. (18-1-4)

IMPERIAL & MAIN. (I am willing to go ½ mile north or south to pick up riders), Los Angeles. JOSEPH W. BACON (5503-850, Ext. 2681). (18-1-4)

(Zone 5)
COMPTON & ORANGE ST. (Will ride with someone or will take riders), Compton. ELLIS L. LINGLE (5524-447, Ext. 2421). (18-1-5)

EL SEGUNDO & SAN PEDRO (Women only), Los Angeles. OLLIE MARY GALLEGAS (5504-273, Ext. 1424), PL. 4-4696. (18-1-5)

(Zone 10)
ROSECRANS & INGLEWOOD OR HAWTHORNE, Lawndale. BILL NEWMAN (5587-619, Ext. 1973), OS. 6-4841. (18-1-10)

(Zone 13)
VAN OWEN ST. & VAN NUYS BLVD. (Will take riders or car pool arrangements), Van Nuys. EDWARD HOPE (5353-288, Ext. 1953), ST. 5-8704. (18-1-13)

(Zone 14)
VENICE & LA BREA (Would like to form car pool), Los Angeles. J. M. GRIDER (5585-221, Ext. 1381). (18-1-14)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
NORMANDIE & 134TH (Leave home between 4:15-4:30, will adjust to suit), Gardena. RICHARD HENRY (5508-251, Ext. 2230), ME. 4-9020. (18-3-5)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 11)
PENN & PALMS STS. (Will take riders but would prefer to ride with someone. Hours 4:15 to 1:00), El Segundo. DOTTIE GOODFELLOW (6150-213, Ext. 2688), El Segundo 1445-J. (20-1-11)

Miscellaneous (Split Shifts)
(Plant 3 and El Segundo Buildings)

(Zone 1)
WESTERN & ADAMS (Route: South on Western to Santa Barbara, west on Santa Barbara to Crenshaw, south on Crenshaw to Northrop, or similar route. Hours 4:15 to 1:00), Los Angeles. KEITH SCHOCK (6100-215, Ext. 1209), RE. 4-9305. (20-3-1)

Rides Wanted

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 2)
VENICE & FIGUEROA, Los Angeles. NAOMI R. ANDERSON (5507-169, Ext. 526). (2-1-2)

(Zone 3)
NORMANDIE OR VERMONT & 93RD, Los Angeles. CLARA M. SEXTON (5507-161, Ext. 526), PL. 3-0825. (2-1-3)

(Zone 4)
FIRESTONE & NORWALK BLVD., Norwalk. GARY R. COOPER (5503-731, Ext. 2681), LO. 5-4321. (2-1-4)

ABBOT ROAD & DOROTHY AVE. (Close to Imperial Blvd. and Atlantic), South Gate. ALETHA STOUT (5232-104, Ext. 1236), LO. 6-0214. (2-1-4)

(Zone 5)
DOWNEY & ARTESIA, Bellflower. HARRY LEE STRETCH (5504-157, Ext. 1424), TO. 3-1782 (neighbor's) (2-1-5)

DEL AMO & DOWNEY, Lakewood. ED HEPPERLE (7310-72, Ext. 1571 or 1378). (2-1-5)

CENTRAL & COMPTON OR ROSECRANS, Compton. HENRY HUNTER (5508-104, Ext. 2230). (2-1-5)

OLIVE & WILMINGTON, Compton. GLADYS BOWEN (5507-166, Ext. 526), NE. 5-2986. (2-1-5)

LAKEWOOD CENTER. (Paramount Blvd. to Rosecrans to Prairie & Plant I or what have you? Will consider car pool), Lakewood. W. S. COMBS (5503-328, Ext. 2681). (2-1-5)

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 6)
DENKER & 160TH, Gardena. JERRY MALUGEON (5501-326, Ext. 2200), ME. 2-3003. (2-1-6)

PACIFIC AVE. & 21ST, Long Beach 6. LESTINA K. MASON (5507-43, Ext. 526), L. B. 352-471. (2-1-6)

WESTERN & ROSECRANS, Gardena. WILMA COLE (5507-41, Ext. 526). (2-1-6)

(Zone 8)
LOMITA BLVD. & WESTERN OR NORMANDIE, Harbor City. THOMAS L. MARTINEZ (5503-377, Ext. 2681), DA. 6-6439. (2-1-8)

MARTINEZ & 220TH—Torrance Unified School, Torrance. DOROTHY R. MEISTER (5352-66, Ext. 1508). (2-1-8)

WESTERN & 246 ST., Harbor City. ROBERT E. KEYES (7310-85, Ext. 2227), DA. 6-4982. (2-1-8)

GAFFEY ST. & 4TH, San Pedro. C. L. WOODMAN (5534-87, Ext. 2421), TErminal 3-2279. (2-1-8)

(Zone 9)
PRAIRIE & 164TH ST. (Would like to form or enter car pool), Lawndale. JOHN KANE (5164-26, Ext. 2071). (2-1-9)

(Zone 10)
BLANCHE ST. & 33RD, Manhattan Beach. M. PATRICIA BUSTAMENTE (5507-156, Ext. 526), FR. 2-7208. (2-1-10)

PIER AVE. & HERMOSA AVE. (can be picked up at Monterey), Hermosa Beach. EVELYN PEARSON (5507-149, Ext. 526), FRontier 4-9963. (2-1-10)

(Zone 11)
EL SEGUNDO & AVIATION BLVD., Hawthorne. MILDRED STAHLE (5507-129, Ext. 526). (2-1-11)

EL SEGUNDO & WALNUT. (Would like ride or car pool arrangement), El Segundo. HAL COLE (5231-33, Ext. 1376), El Segundo 1990J. (2-1-11)

(Zone 12)
PEARL & LINCOLN BLVD. (Will consider car pool arrangement. I have a car but would rather have a ride), Santa Monica. MARION L. CODNER (5588-318, Ext. 1938). (2-1-12)

HAWTHORNE BLVD. & 118TH ST., Hawthorne. MINNIE HOLLAND (5507-83, Ext. 526). (2-1-12)

INGLEWOOD & LENNOX, Inglewood. ALICE DWYER (5504-56, Ext. 1424). (2-1-12)

IMPERIAL & HAWTHORNE BLVD., Hawthorne. B. G. COOK (5544-60, Ext. 2645), OS. 6-5162. (2-1-12)

SEPULVEDA & 80TH. (Westchester. Will consider car pool), Los Angeles. E. R. SNYDER (5920-95, Ext. 2612 or 2613), OR 2-7813. (2-1-12)

(Zone 13)
CORBIN & SHERMAN WAY OR VENTURA. (Want to form car pool from west end of San Fernando Valley), Reseda. D. R. CHAMBERLIN (5241-350, Ext. 2075). (2-1-13)

VENTURA & SEPULVEDA OR LINDLEY, Encino. BETTY WILLIAMS (5507-135, Ext. 526), DI. 2-5256. (2-1-13)

EUCALYPTUS & REGENT, Inglewood. FRANK J. MATRIZO (5503-184, Ext. 2681), OR. 7-3995. (2-1-13)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 2)
SLAUSON AVE. & CENTRAL AVE., Los Angeles 1. ROOSEVELT M. BEATTY, Jr. (5518-109, Ext. 2792), AD. 4-1619. (2-3-2)

(Zone 3)
FLORENCE & ALAMEDA or Holmes & Gage. (Will consider car pool), Los Angeles. ALENE R. LAMB (1435-88, Ext. 2761), LA. 0428. 2-3-3)

(Zone 5)
PEARCE & SOUTH ST. between Bellflower & Clark, Bellflower. ROSE ANN RAFFERTY (5351-11, Ext. 2582), TOrrey 6-5606. 2-3-5)

(Zone 6)
VERMONT & 161ST, Gardena. JOHN Q. ZUTTERMEISTER (5373-119, Ext. 2495), MEnlo 4-7778. (2-3-6)

(Zone 8)
COMPTON BLVD & CRANBROOK. (½ mile west of Crenshaw on Compton Blvd.), Lawndale. A. O. THOMPSON (5806-122. Ext. 540). (2-3-8)

(Zone 14)
LA BREA & 4TH ST. (Interested in car pool), L. A. 36. MARK A. STERN (3310-70, Ext. 477), WE. 1-5845. (2-3-14)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 2)
VALLEY BLVD. & FREMONT. (Will trade rides or ride as passenger), Alhambra. GEORGE L. WILSON (Air Force, Ext. 1941), CA. 1-7781. (3-1-2)

HOOVER & W. 60TH, Los Angeles. ARLENE A. RAINA (5100-26, Ext. 469), PL. 8-4835. (2-1-2)

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 3)
VERMONT OR BUDLONG & 95TH, Los Angeles. ALICE A. BURNESS (9340-42, Ext. 2263-2264). (3-1-3)

CENTURY & VERMONT OR HOOVER & CENTURY, L. A. 44. BESSIE TUCKER (9340-29, Ext. 2263), PL. 5-8487. (3-1-3)

(Zone 5)
VERMONT & 135TH, Gardena. PHYLLIS JONES (5127-73, Ext. 2747), ME. 9-4012.

(Zone 6)
LONG BEACH BLVD. & WILLOW ST., Long Beach. BILL BRAMSON (3230-536, Ext. 572), L. B. 409115. (3-1-6)

WESTERN & 145TH ST.—just south of Rosecrans, Gardena. HENRY ROSEN (3255-191, Ext. 2101), MEnlo 9-2355.

(Zone 8)
CARSON & WESTERN. (Near 5-Points), Torrance. W. H. JAY (5503-64, Ext. 2681) FA. 8-4970. (3-1-8)

(Zone 10)
HIGHLAND & MANHATTAN BEACH BLVD. (Interested in car pool or getting a ride), Manhattan Beach. ROBERT A. SCHWARTZ (5126-64, Ext. 2369). (3-1-10)

INGLEWOOD AVE. & 134TH ST., Hawthorne. DIANNE HAMMOND (1441-86, Ext. 1403), OSborne 6-4085. (3-1-10)

(Zone 12)
LENNOX BLVD. & INGLEWOOD AVE., Inglewood. JOYE AVERY (5151-38, Ext. 687), OR. 2-5276. (3-1-12)

CENTINELA & JEFFERSON, West Los Angeles. ELLEN WISE (4300-19, Ext. 2436).

LINCOLN BLVD. & MANCHESTER AVE., L. A. 45. GEORGE SHAHEEN (5127-72, Ext. 1904), OR 2-0583. (3-1-12)

(Zone 13)
INGLEWOOD AVE. & REGENT ST. (Ride home only), Inglewood. VICKI STRAHAN (5910-833, Ext. 1565 or 1566). (3-1-13)

(Zone 14)
CENTURY & PRAIRIE, Inglewood. TED HILL (8630-15, Ext. 2433), OR. 7-9026.

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 5)
OLIVE & AVALON, Compton. JOSEPH A. BLIGH (3310-15, Ext. 1555). (3-3-5)

CENTRALIA & PALO VERDE, Long Beach (Lakewood), J. G. LE MASTERS (3140-707, Ext. 466), FRontier 2-6314. (3-3-5)

ARTESIA & ATLANTIC (Mostly interested in getting in, or forming car pool), Long Beach. L. C. PLEGER (3360-28, Ext. 1506), L.B. 205060. (3-3-5)

(Zone 9)
RINGE & ROBINSON, N. Redondo. MARY RICHARDSON (3460-818, Ext. 512), FR. 4-3621. (3-3-9)

SEPULVEDA & REYNOLDS (Sepulveda Gardens) (Only interested in car pool arrangements), Torrance. W. J. ODOM, jr. (3460-106, Ext. 2491), FR 5-996.

(Zone 10)
MENLO & 122ND. (I would like to ride in the morning only), Hawthorne. ELEANOR MARASON (6410-13, Ext. 2508), OS. 6-3176. (3-3-10)

(Zone 12)
SEPULVEDA & WILL ROGERS ST. (Westchester area), L. A. 45. JOHN N. SJURSEN (6230-65, Ext. 2722), OR. 1-7869.

(Zone 13)
MANCHESTER & FREEMAN BLVD., Inglewood. STEPHEN WEST, JR. (3512-160, Ext. 2441), OR. 7-7074. (3-3-13)

(Zone 14)
MELROSE & VINE OR ROSSMORE. (Would like a ride with someone going to the El Segundo buildings), Los Angeles. ELAINE TOMPKINS (1435-52, Ext. 2762), HO. 2-4463. (3-3-14)

PICO & FAIRFAX or LA CIENEGA, or VENICE & FAIRFAX (Will accept car pool arrangement. Require ride at least 2 days per week but would welcome riding entire week), Los Angeles. J. S. BENDAT (3230-26, Ext. 1291 or 1876), WE. 1-8881. (3-3-14)

7:30 a.m. — 5:15 p.m.
(Plants 1 and 2)

(Zone 2)
SUNSET & FIGUEROA, Los Angeles 12. WILLIAM WEBSTER (3230-150, Ext. 2395), MA. 9-3442. (4-1-2)

7:30 a.m. — 5:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 8)
CRENSHAW & TORRANCE BLVD. (Live in Torrance Gardens), Torrance. ROSS D. HARP (3310-89, Ext. 421), FA 8-4205.

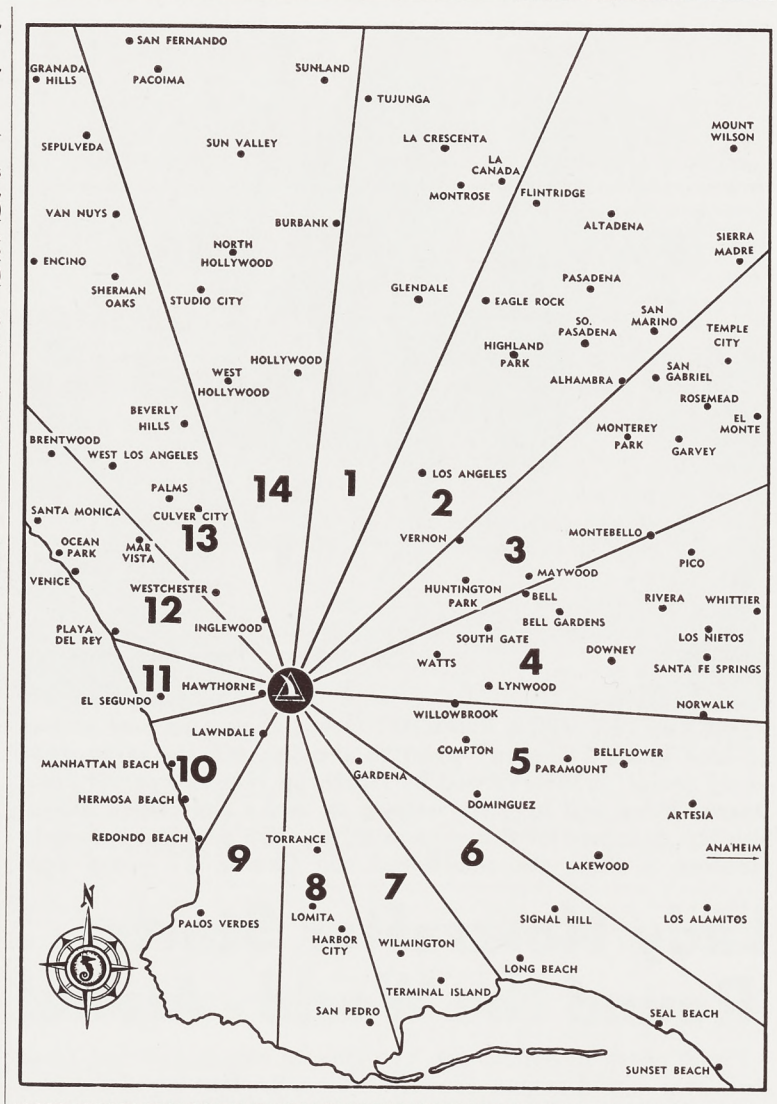
3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 5)
DELANO BLVD. & BELLFLOWER, Long Beach. EDWARD DUNN (5538-214, Ext. 525), L. B. 5-7753. (6-1-5)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)
BUDLONG OR CATALINA AVE & 37TH PL., Los Angeles. R. PHILLIPS (5503-676, Ext. 2681). (8-1-1)

(Zone 2)
MONTE VISTA ST. & AVE. 53. (Can be let out on Figueroa St. near Ave. 53 or 54), Highland Park. JULIA LEE WHEELER (5507-430, Ext. 526), CL. 7-0731. (8-1-2)



RIDES WANTED

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 2)
VERNON & AVALON. (I will accept ride with anyone living or passing near this intersection even if it means I will have to walk four or five blocks to make connections), Los Angeles. LUSTER MULDROW, 5504-230, Ext. 1424). (8-1-2)

(Zone 3)
GARVEY AT PUENTE BLVD., Puente, Azusa, Covina area (Would like to exchange rides, alternating cars weekly), West Covina. GEORGE R. PRESLEY (5587-217, Ext. 1947), Edgewood 7-8885. (8-1-3)

(Zone 4)
FIRESTONE & LAKEWOOD BLVD. (Can walk to Bellflower Blvd. and Imperial Highway), Downey. REX V. SMITH (7310-450, Ext. 2227). (8-1-4)

(Zone 5)
COMPTON & ORANGE ST. (Will ride with someone or will take riders), Compton. ELLIS L. LINGLE (5524-447, Ext. 2421). (8-1-5)

(Zone 9)
COMPTON BLVD. & CORDARY. (I live in a Park Terrace tract home), Lawndale. MARIE CATALDO (5508-603, Ext. 2780).

(Zone 10)
ROSECRANS & INGLEWOOD OR HAWTHORNE, Lawndale. BILL NEWMAN (5587-619, Ext. 1973), OS. 6-4841.

MANHATTAN BEACH BLVD. & AVIATION, Redondo Beach. GWENDOLYN COLEMAN (5507-440, Ext. 526). (8-1-10)

(Zone 14)
ADAMS & CRENSHAW, Los Angeles. THOMAS O. WALKER (5587-841, Ext. 1947), RE. 3-7775. (8-1-14)

VENICE & LA BREA. (Would like to form car pool), Los Angeles. J. M. GRIDER (5585-221, Ext. 1381). (8-1-14)

RIDES WANTED

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
NORMANDIE or DENKER & 49TH (Need a ride desperately), Los Angeles. SAM BENYUK (5502-278, Ext. 2741), AX. 2-9296). (8-3-1)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 1)
OLYMPIC & HOOVER OR ALVARADO, Los Angeles. R. J. WICHLAC (5920-21, Ext. 1231. (Hours 7:00 to 4:45).

(Zone 4)
COMPTON ST. & IMPERIAL BLVD. or 103RD ST. (Hours 12:15 to 7:00), Los Angeles. ROBERT MORGAN (5501-232, Ext. 2200), LO. 6-7945. (10-1-4)

(Zone 7)
CRENSHAW & 139TH (Hours 3:30 to 12:00), Hawthorne. CLAUDIA CLEMENS (4100-222, Ext. 2141). (10-1-7)

(Zone 11)
PENN & PALMS STS. (Will take riders but would prefer to ride with someone), El Segundo. DOTTIE GOODFELLOW (6150-213, Ext. 2688. Hours 4:15 to 7:00), El Segundo 1445-J. (10-1-11)

Miscellaneous (Split Shifts)
(Plant 3 and El Segundo Buildings)

(Zone 3)
INGLEWOOD AVE. & 185TH (Hours 4:15 to 1:00), Redondo. M. M. CHENOWETH (6335-212, Ext. 2521). (10-3-3)

(Zone 10)
HIGHWAY 101 & PIER AVE (Hours 4:15 to 1:00), Hermosa Beach. LORRAINE V. LYDON (6250-214, Ext. 1750), FR. 4-1847. (10-3-10)

Customer Training Men School AF on 'D F-89

A second group of AF personnel recently began a four-week factory training course on the F-89D at Amarillo AFB. The courses are being given to airmen by instructors from Customer Training and Training Aids department (8340).

Headed by Gaylord Anderson, six Norcrafters began the first of the sessions late in October, and have reported that the initial classes were successfully concluded.

Officers at the base announced that the courses would be attended by personnel from bases throughout the entire Air Force, but that the majority of trainees in early classes will represent the Air Training Command and Air Defense Command.

In addition to Anderson, F. M. Edwards, D. A. Dahl, R. E. Troxel, D. A. Neinast, and C. W. Brooks are instructing the airmen. Classes include instruction in Aircraft and Engine Mechanics, Hydraulics, and Electrical Systems.

The program was only the second factory training course at Amarillo, Boeing having previously instituted instruction in B-47 seat ejection.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BASKETBALL CLUB (day)
Larry Baird, acting commissioner
Scheduled practice Monday & Thursday evening 7:45 to 10:00, Leuzinger High School Gym.

BASKETBALL CLUB (night)
Available practice sessions at Rosecrans Playground, 149th and Vermont, Gardena—Monday and Tuesday mornings, 10:00 to 12:00.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily, Plaster Shop tent 11:00 a.m. Plt. 1; Second Floor, center conference rm. Plant II, 12:30; Conference Rm. 5, 12:15 Plant Three.

BOAT CLUB
Harold Senter, commissioner
Next meeting Monday, January 4 at 7:30 p.m., NRC Clubhouse. Election of officers to be held.

BOWLING (days)
Chuck Carson, commissioner
Tournament planned for Christmas Holidays season.

BOWLING (night)
Tony Cardoza, commissioner
Holidays tournament. Call PA&S for details.

BRIDGE CLUB
Bill Glose, acting commissioner
Starting in January will meet 2nd & 4th Tuesday each month. Next meeting Jan. 12, NRC Clubhouse.

CAMERA CLUB (day)
Walt Darby, commissioner

CAMERA CLUB (night)
Adam Slusarz, acting commissioner
Combined Day and Night Shift Camera Clubs' Christmas Party, Dec. 19, NRC Clubhouse. Day Shift will have short business meeting for election of new club commissioner.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (day)
Jim Milne, commissioner
Holiday Tournament Dec. 29 & 31, Western Ave. Golf Course. Entry blanks available PA&S, Plants I & III.

GOLF CLUB (night)
Bill Levens, commissioner
Winter league to form second week of January.

GUN CLUB
Dick Wood, acting commissioner
Meet every other Tues., 7:30 p.m., NRC Clubhouse. Next meeting, Dec. 22.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m. Call PA&S for information concerning meeting place.

PHILATELIC CLUB
George Borton, commissioner
Philatelic & Numismatic combined club meets 3rd Monday in Dec. NRC Clubhouse, 7:30 p.m. Next meeting Dec. 21.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun. Dec. 20, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, Dec. 17.

SEA SCOUTS
Frank Ziegler, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Dec. 26. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Jan. 29, NRC Clubhouse Board Room.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse.

SQUARE DANCING
Dave Dyer, commissioner
Meet every Sunday eve., 7:00 to 10:00 p.m., NRC Clubhouse annex.

SURF FISHING
Ted Griswold, actlng commissioner
Meet 1st Thursday each month, NRC Clubhouse, 7:30 p.m.

TOASTMASTERS 212 (day)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS 1398 (night)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon. Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Orval Coley, commissioner
Meet today—Wednesday, Dec. 16, 7:30 p.m., NRC Clubhouse

Standing Of Top Combos In Keg Play

With the New Year only sixteen days away, and the NRC Bowling Leagues at mid-season point—NRC Bowling Commissioners have jotted down totals and determined league standings as of December 9.

Commissioners Carson, Cardoza, and Rice report first, second and third place teams, in that order, as follows:

Days

825 Scratch—Sandbaggers Deluxe, Financiers, Highballers.

Material Control Mixed Fivesome—Lucky Strikes & Loud Lucky 7 (tied), Ted's Terrifics.

Engineering Men's Handicap—Wood Choppers, Cellar Dwellers, Fickle Fingers.

Machine Shop Men's Handicap—Dusters, Terrors, Weasels.

Finance Division Mixed Fivesome Handicap—Odd Balls, Alley Cats, Sandbaggers.

Vermont Mixed 5 Handicap—Lefts & Rights, Edgers, Five Jokers.

Advance Production Mixed 5 Handicap—Cracker Jacks, Lucky Seven, Alley Cats.

Mixed Foursome 620 Scratch—Woodchoppers, Pigeons, Nelraphilpeg.

Nights

2:00 A.M. League—Five Jets, Scorpions, Misfits.

500 Trio—Early Birds, Misguided Missiles, Splinters.

Friday Fivesome — Dodgers, Kingpins, Woody Peckers.

Women

Mixed Fivesome Handicap—Chopperettes, Harmony 5, Bowl Weevils.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard

BASKETBALL
Teams now forming. Practice sessions at Green Meadows Playground, 431 E. 89th St.—Every Tues. night, 7 p.m.

BOWLING
Florence Rice, commissioner
Ladies Handicap League in progress at Torrance Bowl, Tues. 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Interested ladies please contact PA&S.

FLOWER CLUB
Mary Nelson, acting commissioner
Meet first and third Tues. of each month. NRC Clubhouse, 7:30 p.m. New members welcome.

GOLF CLUB
New series of golf lessons now available Culver City Course. Tues. 7 p.m. For information, call PA&S, 2784.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse. Upholstery instruction provided.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP MARINERS
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Marie L. Sauer, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

Interdepartment Cage Strife Opens January 4

Interdepartmental basketball league play will get under way on Monday, January 4. There will be two day shift leagues—Scorpion and Snark, according to Larry Baird, acting commissioner.

Site of the games will be Leuzinger High School. On January 4, the Scorpion League will lead off with three games—at 7:50 p.m., 5501 vs. 9340; 8:45 p.m., 5518 vs. Lynwood; 9:45 p.m., 3230 vs. 5100.

On Thursday, January 7, the Snark League has scheduled three games for the same times. First game—5353 vs. 5503; second—3142 vs. 3350, and third—3250 vs. 8620.

There is no admission charge to see the games, and Norcrafters are invited to come on out and root for their favorite teams.

DEPARTMENTS IN VACATION BATTLE FOR GOLF CROWN

Golfers attention! December 29 and 31 will be the days for the NRC Holiday Interdepartmental Golf Tourney.

The tourney will be played at Western Avenue Golf Course and will consist of two rounds of 18 holes each. NRC awards will be presented to the first place team in each flight.

This year, for the first time, the winning department will be presented with a perpetual trophy.

Department winners will be determined by net averages of all teams entered.

Entry blanks are now available at Personnel Activities and Services, Plants One and Three. Get your entries in early.

ROOM FOR MORE KEG ENTRIES IN YEAR-END MEET

Although entry deadline for the Holiday Bowling Tourney has passed, Commissioner Chuck Carson reports there is still room for four more doubles teams and nine additional singles entries.

Tourney will begin at 10:30 a.m. on Sunday, December 27, at Hawthorne Bowl, and will be completed that day.

All entrants will be notified of their scheduled bowling times. Schedules will also be posted at the Hawthorne alleys. For more information, call PA&S, extension 2784.

Patrick Folk Test Wits Over Lunch-Hour Chess

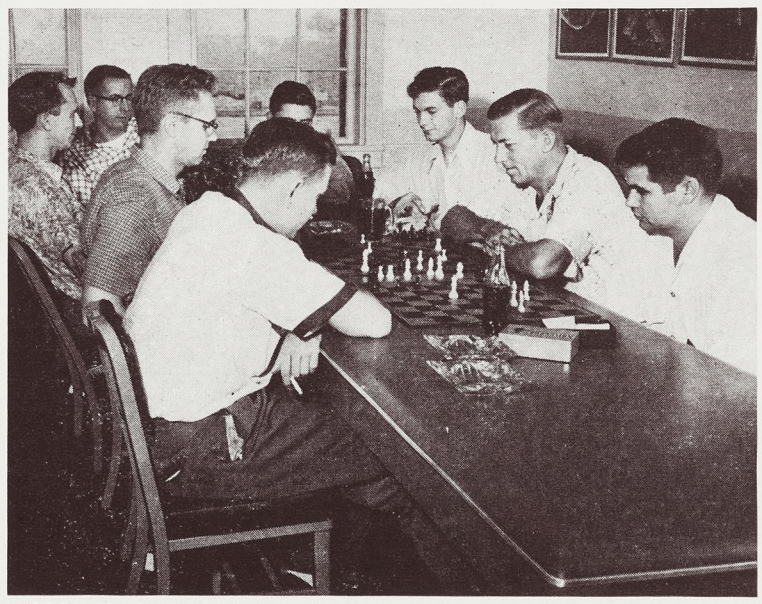
Kings are under attack at Patrick AFMTC where 19 chess folk, comprising the newly formed NRC Lunch-Hour Chess Club are at battle in the game of pure brain skill.

Commissioner R. W. Miller reports the first tournament schedule to be underway. Winner of the first round will gain for himself a plastic chess set and 10 points. Other players will receive a single point for each game won.

King chessman — player with most points by October 1, 1954 — stands to win a plaque from NRC.

Handicaps will be established following the first tourney, and altered after each meet.

Patrick chessmen: — Miller, R. L. Burr—Secretary-Treasurer, Kenny Edwards, L. R. Carman, L. C. Anderson, Jack Moline, Bill Oed, George Christen, Grant Lindgren, Jack Wells, Walt Malloy, Jocelyn Williams, Hal Zimmer, William Jones, Robert Emerson, Cecil V. Carter, Jack Brooks, John Keyes, and Barbara Berner.



MISSILE CHESSMEN—Patrick folk has formed an NRC Lunch Hour Chess Club, with thoughtful and intense competition of the first tournament now going full stride. Here shown maneuvering the kings, queens, bishops, and rank and file chessmen of the boards are, around table from left: Kenny Edwards, L. R. Carman, L. C. Anderson, Jack Moline, Bill Oed, R. L. Burr, R. W. Miller, comish, George Christen.

Yule Wishes Extended by NRC Prexy

By Joe Cribbs
President
Northrop Recreation Club

With the Christmas season just around the corner it is time to extend best wishes and congratulations up and down the Good Time Table.

Joe Cribbs

Let me list them as I see them —. Art Club, Paul Nelson, commissioner — for carrying on the traditional art shows with top success; Badminton, with Eddie Sellon—a rain or shine activity; Basketball, Larry Baird—and his Globe Trotters of Northrop Field; Bible Study, Al Barnes—a great influence for good; Boat Club, Harold Senter — who weighed anchor for a lot of fun this year.

Bowling, Days, Chuck Carson — the biggest activity at Northrop Field; Bowling, Nights, Tony Cardoza—likewise; Bridge Club, Bill Glose—for a clean, active, challenging pastime available to all Norcrafters; Camera Club, Days, Walt Darby—for the best pictures in the world; Camera Club, Nights, Adam Slusarz—likewise; Chess, Ed Fisher—concentratingest group in all GTT; Garden Club, Bert Binge—top notch back-to-the-soil techniques; Golf, Jim Milne—very best in the "ancient and honorable"; Gun Club, Dick Wood—experts all; Model Railroad, Gene Boggess—more fun than anything; Philatelic, George Borton—best stamp club in the world; Riding, Cliff Snudden—Yippee! 'Nuff said . . .

Sea Scouts, Frank Ziegler — good deeds; Skeet, Chuck Allen—sure-shots; Skin Diving, Eldon Burgess — he-man sport; Sport Car, Bruce Vernier — everybody's doing it; Square Dancing, Dave Dyer — whirl your partner; Surf Fishing, Ted Griswold — champions; Toastmasters 212, Glen Jackson — golden tongue contingent; Toastmasters 1398, Eugene Gruber — William Jennings Bryan had nothing on these boys; Tropical Fish, Orval Coley — South Seas call.

And the ladies—God bless 'em. Bowling, Florence Rice—best in the country; Dinner Club, Cathy Waffel—an organization with a purpose; Flower Club, Mary Nelson—our homes are more beautiful; Knitting, Nina Shannon—we like those argyles; Mariners, May Hawkins — tops in seawomanship; Toastmistress, Marie Sauer—they can convince you.

And a hearty handshake to Charles Boyle and his entire PA&S staff for helping make 1953 the most active year in NRC history.

It has been a wonderful 1953 and we are all as proud as punch of the good work. Merry Christmas and Happy New Year to all.

THE Northrop Scene BY DAY AND NIGHT

Dinner Club Hosts Orphans

SURPRISE—! Little guest of NRC Women's Dinner Club took a chance at the Fishing Pond — and got a "bite". Serving at right — Cathy Waffel, Dinner Club comish, and Norma Archibald. Clubhouse was site of party.

TURKEY DINNER headed Thanksgiving party Women's Dinner Club members gave for 52 little girls from Children's Baptist Home of Southern California and Los Angeles Home Society. Carnival booths were placed throughout Clubhouse. Girls were given prizes from each.

Slogan Winners

SLOGAN WINNERS—! Norcrafters who won $25 Savings Bonds in the Community Chest Slogan Contest get awards from Hilde White, PA&S (at left). Winners are: Mary Falk, Management Control; Risina LaMont, Elizabeth Grames, Production Development Laboratories; Marian McDonald, Projects Coordination; Ruth Harris, Analytical Engineering. Women's Counsellor Jo Roth is in background. Three of the girls had turned in first initials only, making quite a surprise when all winners turned out to be lady Norcrafters. Top entries now compete in Southland finals.

NRC BOAT CLUB held its annual Beachcombers' dinner-dance at NRC Clubhouse. Everyone came in costume—winners were Pete Suption, Electro-Mechanical Design, (as beachcomber doctor), and Blanche Horst, Blueprint (attired in 1903 bathing suit). Dance highlighted Boat season.

Private Party in Lights

EARLY ARRIVALS—! On hand at an early hour to get in on the fun are these Norcrafters entering the Hollywood Palladium under welcoming marquee. Big private party to kick off the holiday season was brought about by Northrop Recreation Club. High-caliber, top-notch program was possible through the combined efforts of PA&S Manager Charles Boyle, NRC Prexy Joe Cribbs, Special Events Chairman Ash Dunning, Palladium Manager Sterling Wey and all NRC officers, commissioners and representatives. Dancing got under way at 8:30 p.m.—continued till 1:00 a.m. Party was TV'd—10:30 to 11:30.

OFFICIAL CONGRATULATIONS—! NRC Prexy Joe Cribbs (center) receives congratulations for a job well done on the Palladium Private Party. From left: Pilot Jack Farley, PA&S Assistant Manager Harry Clark, Cribbs, Industrial Relations Director John B. Clark and Vice President John W. Myers. Evening was biggest in NRC history of events. Tickets for capacity Palladium turn-out were sold out in advance.

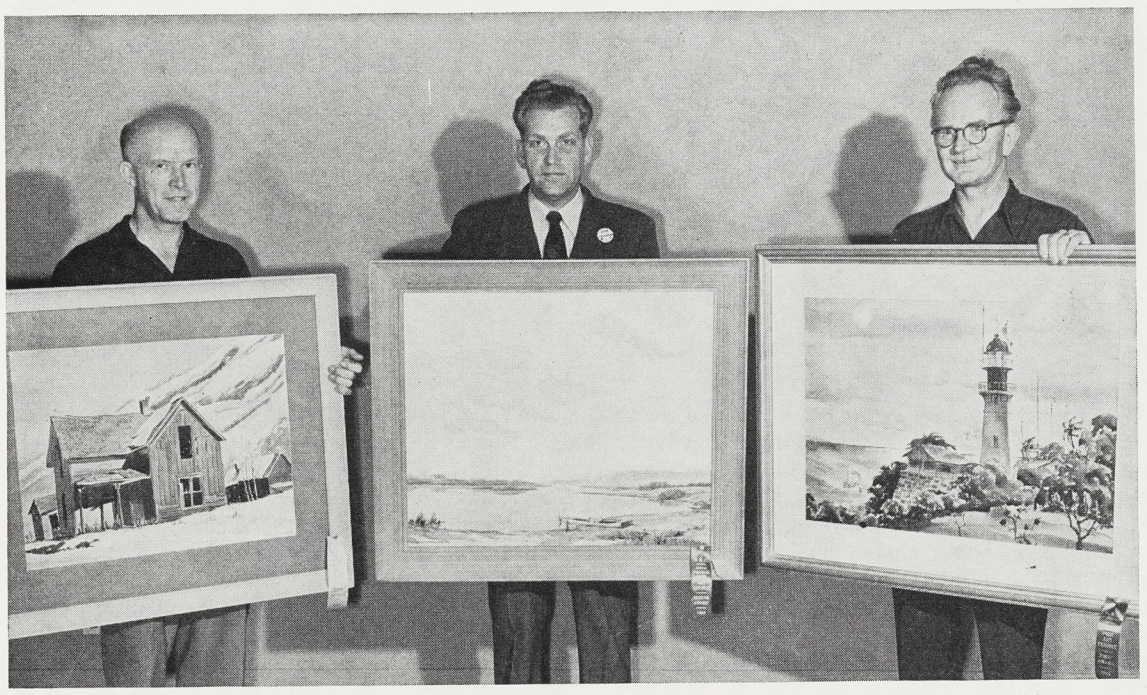
Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, January 13, 1954

Palmdale Pictorial In Color

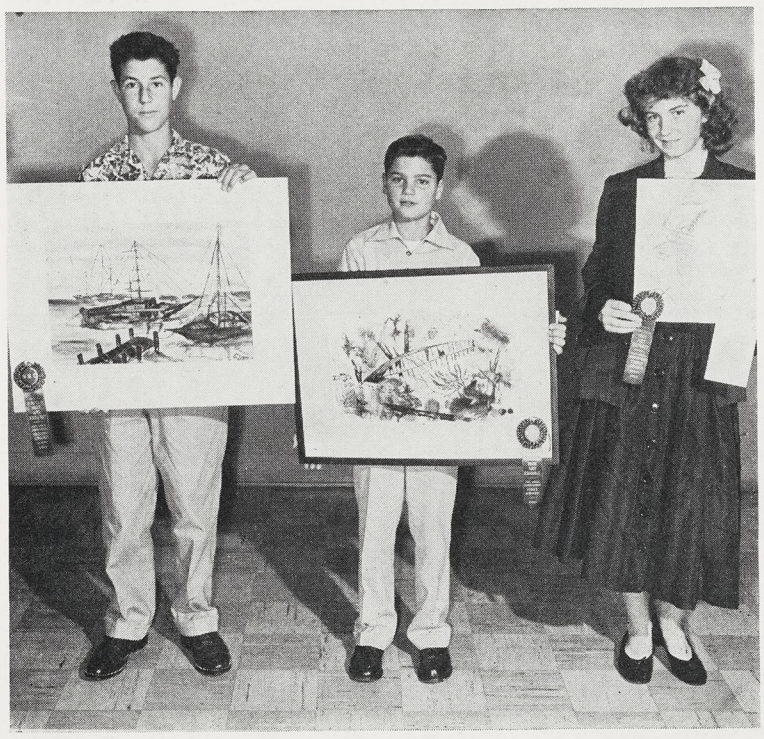
(See Next Issue)

ART SHOW WINNERS



CASH PRIZES amounting to a total of $225 are reward for efforts of these Art Show winners. Purchase Prize winners, from left: $50 third place—E. Parker Severson, Loft and Template; $75 second place—Harold Pershing, Art Service; and $100 first place—Paul Nelson, Art Service. Honorable Mention winners, not pictured, are Dave Hoel, Engineering Services; Jack Macartney, Publication Services; Elsie Bode, Henry Ponce De Leon, Norton Kinder, and Bernie Niemier, all of Art department; and Regena Greayer, wife of W. G. Greayer, Engineering Lab. Winning pix titled "Lighthouse at Kai Mana Hila".

REFLECTION of Faith is title chosen by John Kayser, Final Assembly, for his winning entry. Eddie Truax, PA&S, is shown presenting Sweepstakes trophy to John. Art Show entries are exhibited in Cafeterias at Plants One and Three in annual competition and Sweepstakes winners are chosen by Norcrafter vote. Show has become noted throughout Southland as one of most successful examples of industrial art exhibits.



JUNIOR Division Art Show winners shown with winning entries are, from left: Stan Santee, 13, son of Lula B. Clark, Engineering Services, second; Ricky Lesnick, 11, son of Ed Lesnick, Flight Service, first; and Karla Nelson, 11, daughter of Paul Nelson, Art Department, third. Honorable Mention winners, not shown, were Geraldine Smith, 13, daughter of L. W. Smith, Tool Planning; and Robin Gray, 12, son of June Rogers, Flight Test.

Huge New Parking Area Soon Ready--1000 Cars

Parking for an additional 1000 Norcrafters' cars is rapidly being made available as Industrial and Plant Engineering plans materialize for the area around the former Northrop Aeronautical Institute.

Space for approximately 800 cars has already been made available for use of Norcrafters in both Plants One and Three — the site being roughly half-way between the plants.

The area already being used — formerly the Institute parking lot plus a portion of the so-called "boneyard" — has been paved. It will be lined, according to schedule, by next week-end.

Directional flow of traffic in the huge new lot will be indicated by painted arrows on the pavement to assist Norcrafters in smooth and efficient movement into and out of stalls.

Nearby parking areas — which will bring the total to the thousand figure — are being made available as fast as possible to the west of the site mentioned. Much of the space was formerly used for storage of airplanes here for modification; with the completion of that program the area is again free for general parking.

To further encourage use of the new facilities by drivers from both plants, a new pedestrian gate is being installed west of the former Institute administration building, and a walkway prepared for pedestrian traffic straight to Plant One. These twin projects are expected to be completed within the next few weeks.

The availability of the new areas for parking is expected to help decrease on-street parking on neighboring thoroughfares. It follows the continuing policy of providing for Norcrafters as many near-plant parking facilities as possible.

New Ogden Office To Speed Hill AFB Liaison

Opening of a new Northrop office in Ogden, Utah, has been announced by General Oliver P. Echols, with Lester H. Coates named manager.

Principal responsibility of the Ogden office will be liaison with Air Force activities at Hill Air Force Base, the designated maintenance and supply center for Scorpions and missiles built by Northrop for the AF.

Ogden is the newest of three offices, the Washington, D.C., and Dayton offices having been in operation for some time. Colonel S. W. Towle, jr., is in charge of the former; Fred Baum heads the Dayton office.

Two technical representatives are already on hand at Ogden—James Tway, Customer Field Service, and Frank Poelking, Spare Parts Administration.

Coates, who will report to Vice-president John Myers, has been in the Military Relations department for the past three years, and previously was assistant supervisor in the Engineering stress group. He has been a Norcrafter since 1942, and is an engineering graduate of SC.

LES H. COATES

Air Materiel Command Gives Taxpayers More AF

In 1953, a year keynoted by economy in government, the Air Materiel Command tightened its belt, sharpened its management, and brought Americans over $200,000,000 more Air Force for their tax money.

How was it done? Mat Conminded AMC did it in scores of ways, among which were adoption of:

—Vast decentralization of authority and operation.

—"Management by exception", or concentrating top level management's consideration on critical trouble spots and high cost areas . . . ignoring fields where progress is normal.

—A "fix it in the field" maintenance and repair philosophy, utilizing overseas facilities and last-minute technological advances such as mobile M&R units.

With such open mind and aggressive streamlining, AMC was able to make 1952's slogan—More Air Force Per Dollar—1953's reality.

PA&S Has License Plate Service for Norcrafters

Deadline for obtaining California license plate tabs is February 4, 1954. Personnel Activities & Services announces that 1954 tabs may be secured through offices at both Plants I and III until February 3, 1954.

Applications for tabs may be made daily, Monday through Friday. At Plant I, hours will be 11:00 a.m. to 1:15 p.m., 3:00 p.m. to 4:30 p.m., and 8:15 p.m. to 9:45 p.m. Plant III hours will be 11:00 a.m. to 1:15 p.m. and 3:00 p.m. to 4:00 p.m.

Required for purchase of 1954 tabs is the potential registration slip received by the registered owner from Sacramento. Those who do not receive 1954 potential registration slips by January 20, 1954, may use their validated 1953 registrations.

Norcrafters requiring change of car ownership or transfer from out of state should contact a Department of Motor Vehicles Office.

Davis Delight

Doctor's Hospital at 5:23 a.m. last 8 December 1953 resounded with the lusty cries of one James William Davis. Little James had just arrived to bring 6 pounds 3 ounces of additional happiness to father Chuck Davis (Tooling Operations) and mother Joan. Another proud member of the family is brother Mark, age 4.

Andresen Arrival

An exciting day for the Andresens came last 17 October 1953 when Patricia Elaine arrived at 1:50 p.m. Ray Andresen and wife Lois (3141 Plant 2) are the proud parents. Little Pat has a big brother, Lowell, age 15, and a sister, Jeanne, age 10, Everyone is happy with the little 7-pound 2½-ounce bundle of joy.

Cosgrove Cutie

Robert Dale Cosgrove, age 7, and his brother Douglas Walter, age 3, have a new baby sister. Father Walter H. Cosgrove (Missile Sub-Assembly, nights) and mother Frances named her June Ellin when she arrived on 11 November 1953. It was 4:55 p.m. when Centinela Valley hospital officials weighed little June in at 8 pounds 3 ounces.

Happy Sunday

Los Cerritos Hospital on Sunday, 15 November was a happy place for Jesse Kuhn, Raw Stock, nights, his wife, Jo Ann, and daughter, Beverly Christine, 21 months. Reason for this happiness was the arrival of Bradley Scott—9½-pound addition to the Kuhn family—even if he did arrive at 3:00 a.m.

Norcrafters Wed

Wee Kirk o'the Heather chapel in Las Vegas, Nevada, was the setting for the December 30 wedding of Molly Churchill, Engineering Publications, and Joe Squires, Final Assembly. After a brief honeymoon the couple returned to Inglewood where they are presently making their home.

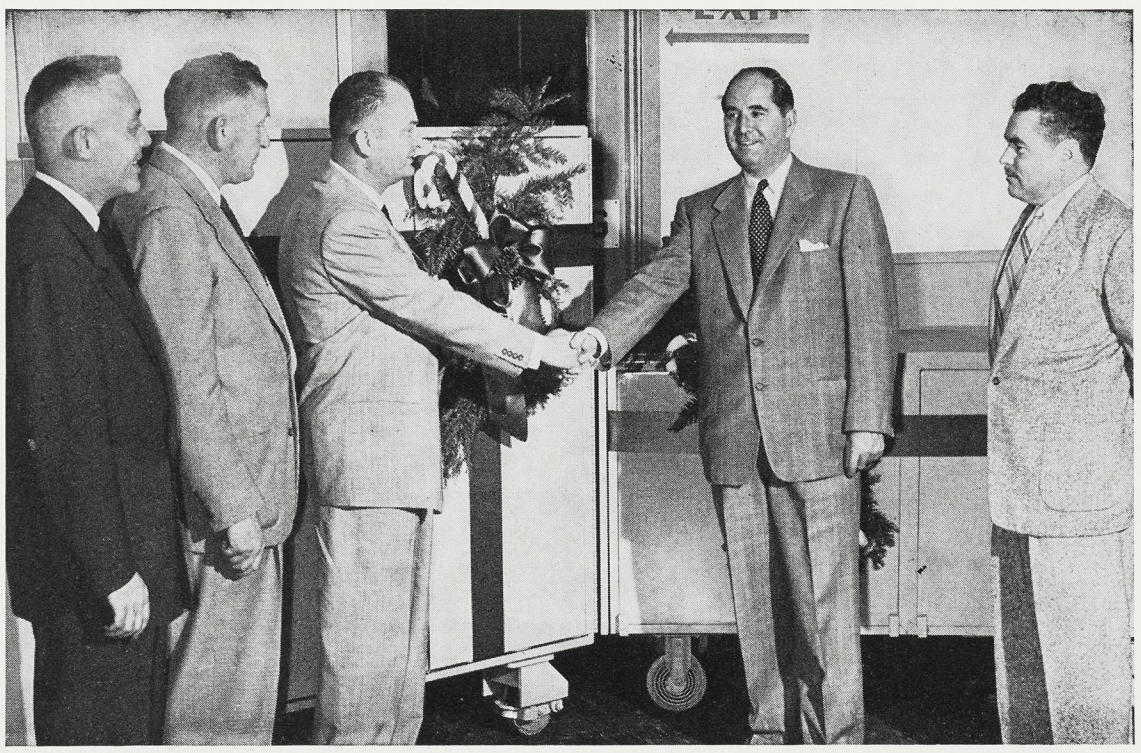
Capistrano Honeymoon

Shirley Price, Wage and Salary, became the bride of Gerald Benecke of San Antonio, Texas in a 9:00 a.m. ceremony performed on December 26 in St. Joseph's Catholic Church, Hawthorne. Following the service the couple departed for a honeymoon in San Juan Capistrano.

Christmas Eve Wedding

December 24 at 5:00 p.m. was the time for the marriage of Dorothy Peterson and Paul Hatfield, both of Publications department. Service was conducted at the First Congregational Church of Los Angeles. After a quiet reception at the Town House the couple departed for a honeymoon in Nevada and Utah.

Special "Christmas Present"



TEST CART for radio, radar systems installation was "Christmas present" to Vice-president Kenneth P. Bowen, Manufacturing, from Electro-Mechanical Labs, Plant Two. At symbolic presentation were, from left: E. P. "Dutch" Hofstra, D. W. "Red" Phillips, Bob Hall, Bowen, and Bill Boyes. Built in extremely short time by Electro-Mechanical Norcrafters, the cart was sent to Ontario for use on flight line to help speed delivery of airplanes to Air Force by cutting time required for radio, radar installation. Cart has all cable stored in rear; contains adjustable shelves for convenience; is a mobile unit.

NORCRAFTERS WIN $$$ AND MERCHANDISE FOR SLOGANS

"FLIGHT" BOOK AT DISCOUNT AT TOOL STORES

A special edition of "Flight"—a pictorial history of aviation—is now available to all Norcrafters at Personnel Services Tool Stores. "Flight" commemorates the 50th anniversary of flight and is the complete story of man's conquest of the air from earliest trials.

On advance sale, Norcrafters may purchase "Flight" for $7.95—regular price in stores will be $10 per copy.

A personal note—autographed souvenir portraits of Northrop's two Korean jet aces and test pilots, Bob Love and Clifford Jolley, will be included with all books purchased.

Two Norcrafter Combined Charities sloganeers — Ruth Harris of Analytical Engineering and Burton Foster of Missile Field Test—have snared wins in the finals of the all-Southland industry Red Feather slogan contest held recently.

Final judges Matt Weinstock of the Daily News, Nick Williams of the Los Angeles Times, and Bill Kennedy, Herald-Express, picked these two Norcrafter slogans from among all Southland industry final entries as meriting prizes:

From Ruth Harris—"*A little sum each week from the strong provides strength for the weak.*"

And from Burton Foster—"*It is the best answer to the oft-repeated question, 'Why doesn't somebody do something?' Let's all be somebody.*"

For their pungent slogans, Harris won a deep fat fryer contributed by Certified Grocers of California, and Foster was awarded a man's suitcase contributed by North American Aviation.

Ten Norcrafters, all-told, had reached the finals, five of these having already won for themselves a $25 Defense Bond each from Northrop for their winning slogans submitted in the in-plant phase of the Combined Charities contest.

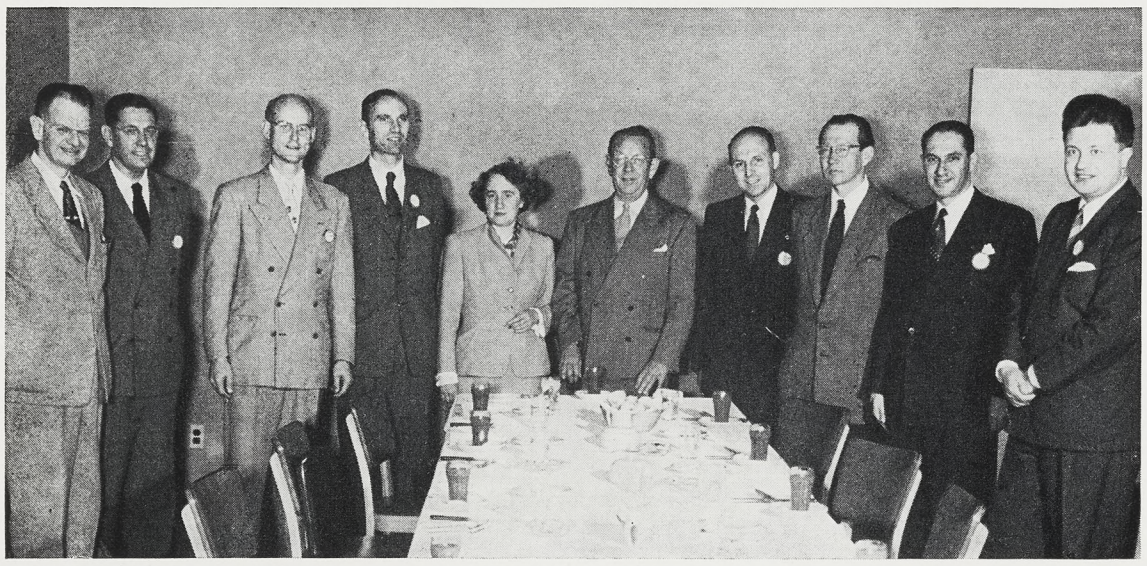
The five in-plant Defense Bond winners had been Ruth Harris, Elizabeth Grames and Rosina La Mont, Production Development Laboratories; Marian McDonald, Projects Coordination; and Mary Falk of Management Control.

Follow-up sloganeers also reaching the finals — among whom was Foster, who went through to win—were George Robb, Sheet Metal Fab; John Bacon, jr., Preliminary and Confidential Design; Margaret Sell, General Accounting and Insurance; and Austin Campbell, Anaheim.

Altogether, some 30 prizes were awarded to winners. Highly worthwhile nature of the contest was partially indicated by the first two prizes awarded. Helen Kuether of Hughes Aircraft took top win—an expense-free weekend for two at the St. Francis in San Francisco, traveling via Western Airlines. Charles Haynes of Southern California Gas took second—similar to the first, but with change of locale to the Palm Springs Biltmore.

Red Feather slogan contest was sponsored by the Southern California Industrial Editors Association, and was open to all employees of Southland companies having industrial publications.

Germany Sends Medics to Study



FIVE GERMAN DOCTORS recently visited Northrop on State Department-sponsored national tour to study methods in U. S. industrial hygiene. In group shown, from left: N. N. Burton and J. S. Littig, California Division of Industrial Safety; Lee Johnson, Northrop chief safety engineer; visitors Dr. Rudolf Hauf and Dr. Else Kunigk; Dr. Roger D. Mackey, Northrop medical director; visitors Dr. Heinrich Rossman and Dr. Heinz Ehrlicher; H. S. Courant, Department of State representative from Washington, D. C.; visitor Dr. Karl Jeute. Plant was selected for tour as result of good Norcrafter safety record.

Northrop News
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CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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Inquiring Reporter Finds Spirit of Charity Abounds

Christmas is a time for good deeds to be done. And this is true. Norcrafters have proved it. During the past holiday, they literally wrote chapters on chapters of kindness to their fellow men and to their co-workers.

Inquiring Reporter, like everyone else, is always profoundly touched by the spirit that is Christmas. He decided that there were stories that should be told, should he seek the facts. He did, and there were.

The information might not be complete, for it is the inherent nature of givers in this world to remain anonymous.

The question—what about good deeds this year?

Cost Accounting appointed a committee — T. F. Haymer, chairman — to find a worthwhile charity. They found the Little Flower Missionary Home, an orphanage caring for 40 little girls. Instead of exchanging presents as before, CA folk pooled their money and donated it to the home where it was used to purchase an electric air drier to help with the bedding laundry.

Experimental Flight Test adopted a family last year ('52), and made a gift of canned goods. The idea was so good that they adopted three families this year and made three gifts of canned goods.

Model Shop, day shift, made its donation to the same Little Flower Missionary Home mentioned above. Model Shop, night shift, presented a gift of money to a fellow Norcrafter who had been injured in an automobile accident.

Engineering Publications forwent the usual exchange of presents and bought a huge box filled with toys for the Big Sister League, plus a gift of money left over.

Industrial and Plant Engineering again bypassed exchange of presents and gave the money instead to the children of the Los Angeles Orphanage, an organization fostering 169 girls from three years old to high school age. These children are well known to TV audiences as the "Littlest Angels".

Credit Union folk adopted a needy family and collected canned goods and money to help make Santa's visit a merry one.

Tool Crib, presided over by Margaret Jones and Thelma Pierce, was good deed rallying point for Norcrafters from Jig Construction, and Tooling Machine and Die Shop. They filled the crib to overflowing with gifts of food, canned goods, blankets, clothing, and money to assist a needy family.

A widow with three children was the needy recipient of the results of the Santa Claus spirit exhibited by Production Planning and Jobs Control departments. Ona Brannon, Production Planning, headed a committee that collected a vast array of clothes, canned goods, bedding, meats, staples, and toys — including a Christmas tree complete with decorations — which made a very merry Christmas for the family.

Tool Planning personnel, headed by Donna Baldine, Jess Duer, and George Steel, heard of a family — father dangerously ill, mother an invalid, one child in a hospital, another run down by a car, and another with tonsilitis—. Presto! Food, clothing, blankets, toys, money, and incidentals from TP personnel were enough to fill a large trailer and make Christmas a happy one in spite of the family's misfortunes.

Test Fixture Engineering, headed by Leo Grizel, joined the Electro-Mechanical Lab to present a Hoffman TV to patients of Children's Hospital, Hollywood.

Florida did good deeds by collecting a substantial sum of money for presentation to the Jacksonville home for children for the purchase of toys, playground equipment, and other happy materials.

Almost all Norcrafters helped Billy Gustin get a wheel chair. Billy, 21 years old, was paralyzed by a rifle bullet. He now has a new tubular folding type wheel chair and his mother, Irene Christensen, Missile Installation, says he is eager to go places and that he is proud indeed of the new chair.

The NRC Women's Auxiliary matched the doll contest (for details see NRC prexy Joe Cribbs' column, page 7) and presented stuffed animals to the little boys of Olive View Sanitarium.

Electrical Test and Structural Test have one and all adopted Jack Ralls, who was stricken with polio a few months ago. They have helped defray hospital costs and are managing a standing fund to aid Jack in his fight for health. Incidentally, Jack welcomes visitors, especially Scorpion and missile builders. He's at the Rancho Los Amigos, Ward 60.

Engineering administrative personnel, with money from an accumulated conference fund, acted as god-fathers to an 18-year old boy, paralyzed as a result of a swimming accident, who had been fated to spend a lonely Christmas in the hospital. Due to their generosity an ambulance was hired through the good offices of PA&S and the boy was delivered to his home where over four hundred friends and relatives were able to visit him during his stay.

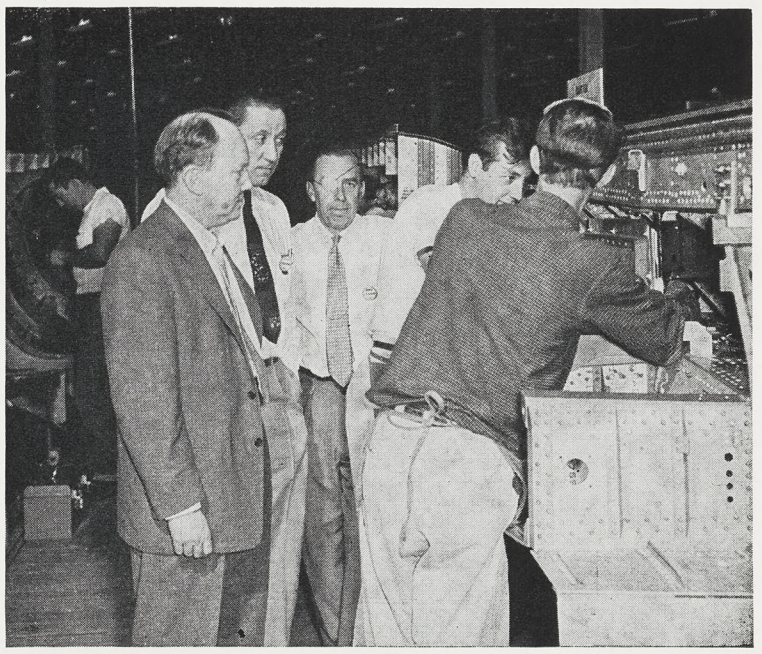
There are many ways to express Christmas. Note the photo of E. R. "Mac" McDonald, night-shift janitor in Accounts Payable and Cost Accounting, with his giant Christmas cards. There were many Christmas trees in the plant and many departments got together to exchange greetings and renew ties of friendship. Typical of these get-togethers was that of Tabulating Systems Control and Tabulating Control Operations who, with Norcrafters from Process Paint and Upholstery, sang carols until El Segundo Building No. 7 resounded with good feeling. Kay Capel of Tabulating Control furnished printed songs for the occasion.

Another outstanding example of Christmas spirit in the plant was Standard Tooling and Development department. In addition to their anonymous Santa (now identified as Henry Cooper) who has delighted departments for the past four Christmases, they also presented a seven piece inter-departmental band complete with guest artists and girl vocalist.

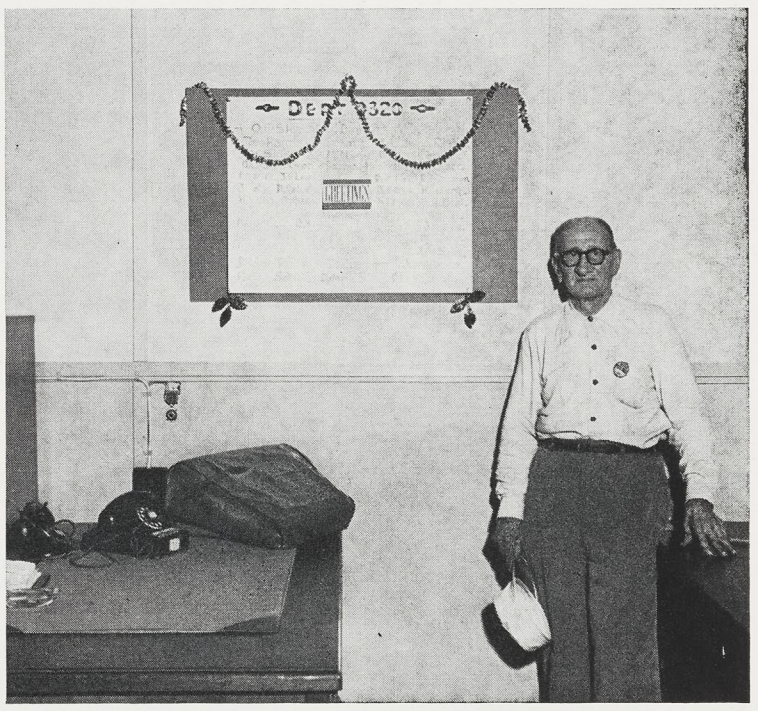
GENEROSITY was by-word when Tool Planning personnel heard of a couple and six children in desperate need. Here Donna Baldine holds one of several hams that were included in the tremendous load of canned foods, staples, meats, clothing, bedding, toys, and other gifts—as well as a Christmas tree and decorations—delivered on 24 December. Open-hearted gesture was one of many. (See story above.)

Night Shift Visit

RECENT VISIT to Factory departments on night shift was made by John R. Alison, administrative vice-president, second from right in photo above. Tour included stop in Electrical and Instruments department (5507), scene of the picture. From left: Dorothy Todd, department Norcrafter wiring on board; C. B. Spencer, factory manager; John Breneman, assistant factory manager, nights; Alison; and Vern Vanderville, foreman, nights. This was one of new vice-president's first opportunities to make thorough tour of departments in the plants, and to become acquainted with the Norcrafters on the after-dark shift.



ANOTHER STOP on Alison's tour was made in Department 5586 (Fuselage Assembly and Installation), where he paused to watch Alvin Beckner and Loren Aiken installing pressure box. John Breneman and C. B. Spencer are in center of photo, while in background, left, Narciso Romero picks up shortages on assemblies before they move on.

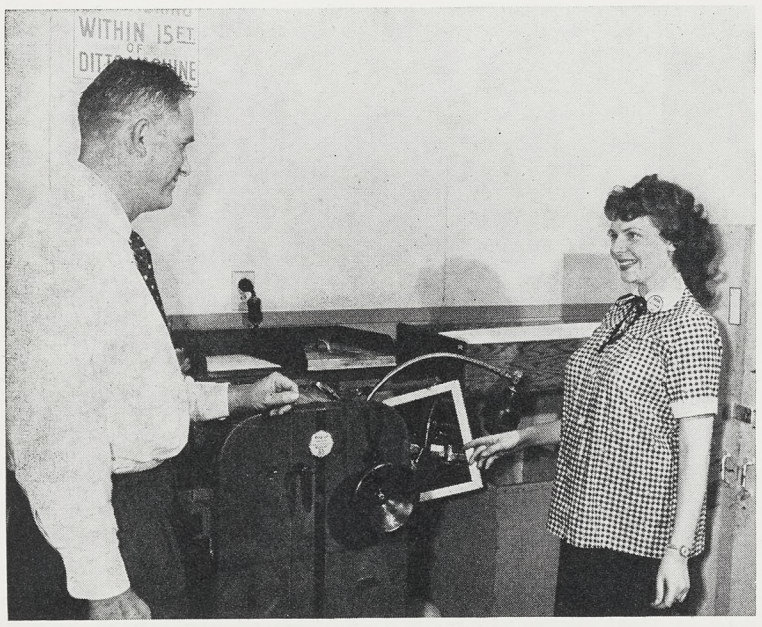


GREETINGS in the form of unusual hand-lettered giant size cards were extended to personnel in Accounts Payable and in Cost Accounting by E. R. "Mac" McDonald, night-shift janitor. Mac spent hours working at home lettering names of each person in department in gilt on cards—much to the delight of the 142 people who depend on him for pleasant working areas. Inquiring Reporter found that the story of Christmas was told in many wonderful ways.

Mat Con In Sheet Metal And Production Control

SUBSTANTIAL Suggestion Award for time and material saving suggestion went to Alfred Anderson, leadman in Sheet Metal, who is shown with Assistant Foreman George Brunk. When Al learned that rework was frequently needed on counter-sink holes on skins when face of skins was marred by tool, he came up with idea of inserting buffer skin between template and skin being worked on, eliminating rework and rejection. Buffer skin can be re-used often.

ANOTHER MAT CON ASSIST came from Don Roush, precision router operator in Sheet Metal, who devised scheme to mill seven skins simultaneously—instead of one. Help in developing his idea came from Orie Reagan, left, factory specialist assigned to Sheet Metal tool and methods development group. Don received Suggestion Award for this idea.



ADVANCED PRODUCTION CONTROL Norcrafters in the Mat Con act recently were George Schwalm, left, supervisor, and Dorothy Smith. Latter won Suggestion Award for her idea of installing mirror on back of multilith machine as an assist to operator in seeing jams which sometimes develop in paper. Misprints can be spotted instantly.

California State Civil Defense Rescue Truck to be on Display at Northrop

In the interest of Civil Defense information awareness the City of Inglewood's office of Civil Defense will display the area "G" rescue truck to Norcrafters January 18 and 19, according to Jerry Baker, Northrop Civil Defense coordinator.

The truck will be on display in the Cafeteria area during the lunch periods of these two days—the first day at Plant I, and the second day at Crenshaw.

Northrop has its own Civil Defense rescue equipment—a trailer completely equipped and on standby status in case of an atomic bombing or other disaster. (See Northrop News—May 20, 1953 issue).

The area "G" rescue truck to be on display is owned by the state of California and represents an outlay of $9000, one-half of which is contributed by the federal government and one-half by the state. The City of Inglewood pays all maintenance and operating costs and is obliged to keep the equipment ready for use at all times. It is for use within the eight cities of area "G", which includes, among others, Inglewood, Lennox, Hawthorne, Lawndale, and Gardena.

The truck display tour at Northrop is being arranged by E. C. Marriner, Civil Defense deputy director, Inglewood.

Interesting facts about the truck equipment: weight—9,000 pounds; it carries such equipment as buckets, gloves, gas masks, saws, axes, pinch bars, asbestos blankets, hammers, oxy-acetylene cutting equipment, chisels, clippers, jacks, picks and shovels, portable flood lights, ladders, protective helmets, litters, and breathing lungs, among others.

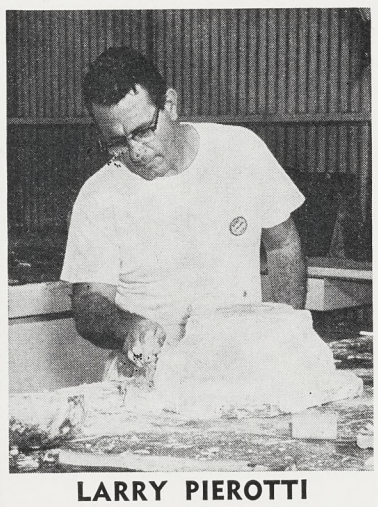
The truck carries a total of 327 pieces of equipment!

Design follows the British model developed during World War II.

Pierotti: Family of Craftsmen

The ornamental plaster craftsman is rarely to be found today—there isn't the call for his services that there was a number of years ago, when every public building was festooned with skillfully-fashioned decorations.

But now and then you'll run across a craftsman of the old school—like Larry Pierotti, Plaster Shop night shift Norcrafter.



LARRY PIEROTTI

Larry has been in the plaster molding business for more than 35 years. It's a family trade, he said, which has been passed on from father to son for generations.

For the past two years he has plied his art in mold dies, some of which are difficult of execution. They must be so constructed that they can be taken apart without injuring any of the components, and they must fit together snugly, like Chinese jigsaw puzzles.

The important part of a plaster slush mold die—like the one Larry was working on when a reporter talked to him — is the inside.

But Larry was taking care to fashion the outside just as carefully.

"My dad always taught me," he remarked, "that both the part that shows and the part that doesn't ought to be done right. or not done at all!"

The mold dies are done without the benefit of plans. The only plans are those in the maker's head, nurtured there by years of experience.

His tools are few, his main one being his hands—strong. sensitive hands. But Pierotti uses a few tools unlike any you might see anywhere else. They are special ornamental plaster tools. one of them shaped like an oversized straight edge razor. brought over from Italy by his father.

Larry's son went to work the other day at Douglas.

"And where do you suppose they put him to work?" Larry chuckled. "In the Plaster Shop!"

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)

WESTERN & SANTA MONICA, Hollywood. Could meet driver in this vicinity or join car pool. JOHN J.OHDE (5354-64, Ext. 2187), NO 2-8766. 12-1-1

PICO & WESTERN or HARVARD, Los Angeles. HERMAN SHAPIRO (5504-162, Ext. 1424). 12-1-1

WESTERN & SANTA MONICA BLVD., Hollywood. Travel on Western, Van Ness or Crenshaw. W. J. FORBELL (5534-17, Ext. 1981), HO 5-9121. 1-3-1

(Zone 2)

MANCHESTER & VERMONT, Los Angeles. RITA DEMPSEY (5586-125, Ext. 483), PL 5-4321 12-1-2

(Zone 4)

FLORENCE & PARAMOUNT. (Interested in entering or forming car pool), Downey. HAZEL IRWIN (5507-41, Ext. 526), TOpaz 2-0009. (12-1-4)

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 5)

CARSON & LAKEWOOD BLVD. or BELLFLOWER, Long Beach. JACK McLAUGHLIN (5587-394, Ext. 1973). 12-1-5

(Zone 7)

DENKER & 220TH, Torrance. DEL YOUNGERS (5503-353, Ext. 2681), FA 83399. 12-1-7

(Zone 12)

PICO BLVD. & CLOVERFIELD BLVD., Santa Monica. W. H. THORNBURGH (5222-355, Ext. 1273). (12-1-12)

(Zone 14)

WOODMAN & VAN NUYS BLVD., Pacoima. C. N. DAULTON (5233-19, Ext. 786), EM 9-1924. 12-1-14

CRENSHAW & 51ST, Los Angeles. C. J. BRUEMMER (2710-44, Ext. 2206), AX 1-5648. 12-1-14

(Continued on Page 6)

Mat Con says

Well done! . . . to the thousand or more Norcrafters who carried the conservation banner through 1953.

In 1954 let's not forget our pledge of '53 to "build the best and deliver the cleanest".

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

DOORS, two, solid wood, used, 2'x6'8" $3. 2½'x6'8" $5. VENETIAN BLINDS, good condition, rustproof steel, 2—11"x 72" $1.25 each; 2—18"x48" $1.50 each; HAZEL STEWART, ORchard 1-6945.

HOUSE, GI resale, 2-bedroom, stucco, hardwood floors, tile kitchen and bath, floor furnace, completely fenced, nicely landscaped, near all aircraft plants, $895 down, JACK GOLDBERG, MEnlo 46062.

TRAILER, 2-wheel, enclosed bed, approximately 4'x8'x3', 2 good tires with spare, rear light, licensed and registered, W. A. WANDERER. Reply in writing to Northrop News, Box 1213.

RADIO-PHONOGRAPH combination, Magnavox, FM, large mahogany cabinet, space for 20" TV, excellent condition, 15 months old, 3-speed record player. A reasonable offer will make it yours. EDWARD DUNN. Reply in writing to Northrop News, Box 1236.

PALOMINO stallion, 5 years old; buckskin MARE; Palomino horse COLT; also three good saddles, W. W. McDOWELL. Reply in writing to Northrop News, Box 1214.

DESOTO, 1941 tudor sedan, radio and heater, $100, JOHN L. HILL, FR 46705.

CROSLEY '47 tudor sedan, good condition, $200, L. V. ROACH, FR 5-5679.

LATHE, Delta wood, complete, $150, L. V. ROACH, FR 5-5679.

GAS HEATERS, one large, one small, portable, make offer, J. ENRIGHT, OR 86810.

PUPPIES, German shepherd, 3 months, AKC registered, $75-$100, W. SNYDER, TOrrey 6-4797.

GOLF CLUBS, 2 sets, Spalding, no reasonable offer refused, H. O. CAMPBELL, AX 3-8071.

PONTIAC 1949 Chieftain deluxe, 4-door sedan, Hydramatic, radio, air conditioner, extras, $1000, ROBERT W. KEEFER, PL 40852.

FORD '48 sedan, 6 cylinder, new seat covers, radio, runs fine, $375, J. H. SHANKLAND, FR 25239.

PLYMOUTH, 1951 two-door, original owner, $875, DON PETERSON, OR 2-7694.

RADIO, 49-50 custom Chevrolet push button, price $40, V. A. SCHULTZ, NE 56917.

TYPEWRITER, Remington portable, 1953, $90, ANNE K. BROWN, ORchard 2-5409.

GOLF CLUBS—4 English custom woods and 13 irons, also bag—$49; ROGER RUSSELL, Long Beach 39-8186.

WASHING MACHINE, Easy Spindryer, semi-automatic, excellent condition, $50, ALFRED M. FITE, jr., Long Beach 5-4435.

SEWING MACHINE, National R-40 rotary, all attachments, in Monterey desk model cabinet, walnut, sews forward and reverse, finger-tip efficiency, A. D. CAROTHERS, ARizona 32269.

ELECTRIC RANGE, Frigidaire, practically new, $60—terms, J. M. McMANUS. Reply in writing to Northrop News, Box 1215.

MERCURY, 1952 sport coupe, Mercomatic, radio and heater, w/w tires, every extra, low mileage, $2195, PHIL REEDER, PL 26064.

MERCURY, 1941 4-door, blue, radio and heater, spotlight, '47 engine, excellent transportation car, $180, DEE BAXTER, 279M (Rialto).

CHEVROLET, 1952 Bel-Air, Powerglide, less than 10,000 miles, like new, good buy, EDWARD STRITTMATER. Reply in writing to Northrop News, Box 1216.

STUDEBAKER '41 2-door, new brakes, original paint, good transportation, no reasonable offer refused, JACK WIEDER, EXbrook 7-3553.

COAT, mouton lamb, ¾ length, size 10-12, full back, worn one month, cost $190, will sell for half price. BABY BED, portable, can be used as car bed, $4; TEETERBABE $3; baby SWING, can be used as car seat, $5. BICYCLES, two girl's 20", $7 and $17.50. LE ROY MELLINGER. Reply in writing to Northrop News, Box 1209.

RECEIVER, communications, Hallicrafters model SX-71, $180, JIM ASHBY, OX 54196.

MODEL AIRPLANE—Thimble-Drome, model TD-1 equipped with "Space Bug" .049 engine, never been used, retail price $19.95, will sell for $10, J. L. ALBIN, LOrain 6-1546.

FLASH unit, CANNON model B-2 with leather case, $30. TELEPHOTO LENS—Nikkor 85mm F/2.0, will fit Leica and similar cameras, $125, HARRY OWENS, FAirfax 84532.

FOR SALE

STUDEBAKER 1949 Regal deluxe sedan, radio, heater, overdrive, excellent condition, $695, M. T. RIDDLE, OR 7-5080.

BEDROOM SET, blonde Hollywood, innerspring and box spring mattress, $85; child's PLAYPEN with pad, $8; baby BED $8, BILLY RAY PETTY. OS 6-9164.

CHEVROLET, '41 4-door, heater, good rubber, good paint, new seat covers, $150, FERDIE VENTURA, OS 5-6440.

BASSINETTE, expensive yellow wicker with stand, plastic pad and liner, excellent condition, $15, MARGE STEVENS, FRontier 2-8148.

DAVENPORT, gray damask Sleep-well, like new, innerspring mattress, N. M. SPANGLER, MEnlo 43400.

OLDSMOBILE (8) 1953, super deluxe "88" Holiday hard top coupe, polar white with red top and red leather interior, power brakes, and all possible extras, must sell immediately, $2995, make offer, ROBERT E. MOORE, DU 3676.

OSCILLOSCOPE, 5", Heathkit $35; TV sweep GENERATOR, Heathkit $30; TV picture TUBE 16BP4 $10; assorted TV PARTS, R. A. SINKER, EX 81674.

OLDSMOBILE "98" 1946 Hydramatic, A-1 condition, new transmission, radio, heater, $400, PAT F. DOBERSTEIN, FR 92742.

OLDSMOBILE, 1942 Hydramatic 4-door sedan, runs good, good tires, $125, ROBERT W. VOGEL, MEnlo 9-1705.

WASHER, Kenmore semi-automatic, two years old, $50, MARY A. LUNA, MEnlo 4-9029.

OLDSMOBILE 1951, 98 Holiday, Hydramatic, radio, heater, automatic windows, top condition, all original, $1950 or trade equity for smaller car in good condition, D. E. KAEDING, CL 7-4889.

MOTOR SCOOTER, Cushman 1952, 2 speed transmission, driven less than 500 miles, cost $390, will sell for $275, looks and runs like new, TED KELLEY, FR 2-2634, call 10:00 to 3:00.

VIOLINS, 3 children's and carrying cases, H. KLINE, AX 2-4146.

AUSTIN 1952 A-40 Sports, clean, well taken care of, $1250, WALT KALANTA, PLeasant 8-2053.

BUNK OR TWIN BEDS, like new, will sell for less than half of original price of $60; Coleman OIL HEATER, will heat 3 or 4 rooms, $10, M. J. ALLEN, LYcoming 2-9085.

BOAT, like new, completely equipped, 21-foot cabin cruiser, double plywood hull, V-8 engine, canvas to cover, 4 wheel trailer, galley and head, $2200, G. M. BOYD, OS 6-2651.

MOVIE CAMERA 8mm Bell & Howell (Sportsman) and case; Eastman 8mm Kodoscope 500 watt PROJECTOR, 3 rolls color film, $125 total, R. E. PATON, OSborne 6-5271.

REFRIGERATOR, Coldspot, 7 cubic foot, freezing unit for meat, perfect condition, MILDRED TEAGUE. Reply in writing to Northrop News, Box 1206.

SEWING MACHINE, Kenmore 1949 cabinet model, all attachments included, excellent condition, $60, VIRGIL NESPOLO, OR 2-3668.

MOTORCYCLE, Indian 74, good shape, $175 or best offer, P. McCARTHY, TOrrey 5-3191.

PUPS, AKC registered cocker, champion stock, male and female, MYRNA HERDER, FRontier 93684.

CHRYSLER 1953 Windsor 4-door, powersteering, T-Conv, radio and heater, will trade, PLymouth 4-4027.

CHILD'S CHEST of drawers and wardrobe combination, $15; 30-06 RIFLE, custom made, V. G. VANDERVILLE, OR 78719.

AIR HORNS, 2 with tank, will sell or trade for washing machine, $35, IVAN W. BRIDGES, LB 903-917.

BINOCULAR MICROSCOPE, for study of insects, plants and minerals, like new, $35, D. NEVIN. Reply in writing to Northrop News, Box 1207.

SHOPSMITH, near new, excellent condition, many extras, cost $290, $200, ROBERT DE MARTINI. Reply in writing to Northrop News, Box 1203.

DINETTE SET, like new Salem maple, won in a contest—retail price $185, will sell for $100 cash, M. L. KOEHLER, ORchard 2-3067 after 5:45 p.m.

MERCURY, 1949, four door, radio, heater, good white sidewall tires, very clean, price $950, call EXbrook 9-1125 after 5:00 p.m. ALTHEA JOHNSON.

FOR SALE

IRONER, Kenmore portable, used few times, $35, or make offer, P. McCARTHY, TO 5-3191.

FORMAL, ballerina length, pink net, strapless, size 9, worn once, $12, L. N. DROM, OS 6-5533.

CHEVROLET, 1947, radio and heater, two-tone brown, 4-door, needs some work, free equity, balance $400; BED with mattress, ¾ size roll-away, $10, E. STEINER, TOrrey 4-0868.

SHOWER BATH STALL, white enameled, in good condition, $12.50, W. S. TERRY. Reply in writing to Northrop News, Box 1202.

TELEVISION SET, Admiral, 21" table model, 1954, U.H.F. adapted, $180, JAMES R. KEITHLINE. Reply in writing to Northrop News, Box 1201.

AUSTIN, 1953 A40 Somerset convertible, 8200 miles, clean, radio and heater, take over $57 payments, $1225, TED HILL, OR 79026.

CHINCHILLAS, one pair and one single male, good double "A" quality stock, include cages, make offer, R. DE GIORGIO. Reply in writing to Northrop News, Box 1219.

AUTO PAINT, enamel (synthetic) and lacquer; one gallon gray hot metal (heat resistant) PAINT; will trade or sell any part or all for electronic equipment or what have you? HENRY ROSEN, MEnlo 9-2355.

WASHING MACHINE, Bendix Economat, automatic, $60, NORM GLASS. Reply in writing to Northrop News, Box 1217.

KAISER 1948 4-door sedan, motor, tires, upholstery, paint, body good, radio and heater (not a junker). $295 cash, McVOY JOHNSON. Reply in writing to Northrop News, Box 1218.

CAMERA, Korrelle single lens reflex, speeds to 1/500, excellent condition, $75; TOOL BOX, 7-drawer Kennedy, $12; TV table stand, $4; miscellaneous photo equipment. H. D. GARVEY, OS 5-4582.

DINING ROOM SET, 8 piece, 6 chairs, table and buffet, mahogany, good condition, $75; BEDROOM SET, mahogany, includes springs and Beauty Rest mattress, vanity and chest of drawers, good condition, $75. PAUL J. ROGERS, PLymouth 5-7310.

BOAT, 24', auxiliary sloop, Marconi rig, enclosed head, galley, sleeps two below, two in cockpit, excellent condition, $1,450. I. W. RAYWORTH, MEnlo 4-6837.

AUTO ACCESSORIES, including triple manifold, engine, block, tachometer, etc. L. W. CURRY, El Segundo 786-W.

MEMBERSHIP, Lake Elizabeth Ranch Club sustaining family membership, 16 miles west of Palmdale in Leona Valley, full information available on request. 65% of cost. HARRY NEAL, FRontier 2-4157.

MERCURY, 1951 4-door, Mercomatic, good tires, take over payment plus $400 or highest offer. RUSS PELTZ, WY 8790 or OS 6-7427.

SPRINGS for standard double bed, good condition, $3.50. ENGELBERT H. RUSA, OS 5-2852.

WAC SHIRTS, cotton and wool, sizes 14 and 16, should be suitable for some girls for work; WAC OVERCOAT, dyed brown, price to agreement. ALMA MILLER, PLeasant 1-5667.

GAS RANGE, Wedgewood table-top, six burners, grill, hi-broiler, automatic timers, clock and light, all white porcelain, in excellent condition, $100 or trade for ¾ or 1 h.p., 3450 rpm electric motor. H. J. POOLER, PL 8-9093.

REVOLVER, 6-shooter, 45 caliber, St. Etienne model-1879, very good condition, included—100 rounds of ammunition, make offer, HARRY J. BLACY, jr., FRontier 2-9794.

WASHER, Kenmore wringer, timer and pump, $30; two heavy metal porcelain LAUNDRY TUBS, both $15. I. C. STOTESBURY, FR 4-6076.

LAND, 2½ or 5 acres, 6 miles east of Airport on 80th St., close to subdivisions, excellent for investment, $25 down, $20 month. NEwmark 5-9239.

TIRES, Crosley, one $10.50, one retread $3, both $12.50. (Neither has been used) Will trade for 6:70-15 or 5:25-16. JIM McKINLAY, HO 4-1066.

HOUSE, $3300 second trust deed on 6-room double, good southwest district, due in five years, payments are $30 month, 6%, $2750 or make offer. NICK RANILL, KImberly 3-9980.

CAMERA, Speed Graphic, tripod, 5 film holders, new flash gun, $100. PACKARD, 1932, convertible, spare tires, aged but classic, $50, RALPH HOPKINS, EXbrook 9-4659.

FORD, 1951, Country Squire station wagon, terms, $1300. W. SNYDER, TOrrey 6-4797.

CABIN CRUISER, 18', mahogany hull, head, V-8 Marine conversion 1947 Mercury motor, Paragon Marine transmission, price $650 or make offer. NICK RANILL, KImberly 3-9980.

OLDSMOBILE, 1953, "98" Holiday, power brakes, radio, heater, all accessories, $3,250. BARBARA ATCHISON, AX 1-9451.

ARMY TRUCK, half-ton, open bed pickup, weapons carrier, will accept binoculars, hand drill or lapidary faceter as part payment, $125. E. E. STORM, PLymouth 4-6102.

FORD, 1929 model "A", sport coupe, fair condition, $50. MYLES H. STANDISH. Reply in writing to Northrop News, Box 1223.

FOR SALE

CHEVROLET, '46, club coupe, Fleetmaster, radio, heater, excellent condition, $450. PHIL KELLER, MEnlo 4-2440.

WASHER, Sears, semi-automatic, year old, perfect condition, $60. H. W. SHERWOOD, OR 8-6879.

FORD, 1951, custom 2-door, radio, heater, turn indicators, original throughout, one owner car, $1075. J. H. WINTERS, OSborne 5-2921.

PIANO and bench, mahogany, beautifully remodeled and reconditioned. ADELINE MADIGIAN, MEnlo 4-4378.

SADDLE, BRIDLE and tie-down, made by F. Merrino, Brydon Brothers, hand tooled and silver mounted, used very little, $95. HARRY NEAL, FRontier 2-4157.

PHONOGRAPH RECORDS, cylinder type, good condition, variety of artists, sell or trade for 78 RPM jazz records. R. BRUMPTON, OS 6-5253.

BUICK, 1953 Riviera special, red with black top, w/w tires, radio, heater, 5000 miles, $2300. T. W. OSBORN, OS 6-8679.

HEATER, Southwind "Freshaire" 909-A, like new, never installed, fittings and defroster kit, for 49-54 Plymouth, $30; Octagane vapor injector (water-alcohol) late model, stainless steel tank fittings for 49-54 Plymouth, $20, R. S. WALKER, TOrrey 3-7138.

FILM REWINDS, one set for 8mm or 16mm, heavy duty, new, never been used, $15. TIRES, three 6:50x16, six ply heavy duty, like new, all three $80 or $30 each. ENGELBERT H. RUSA, OS 5-2852.

MINK COAT, size 12-14, full length, will sacrifice. HOllywood 7-4655.

BICYCLE, boy's 26", 6 months old, excellent condition, new tubes and tires, $25. JEAN HOLBERT, PL 5-8863.

CAR HEATER, Southwind, gasoline, needs element costing $1.35, price $8.50, F. CALCOTE, PL 2-9704.

CHEVROLET 1938, 4-door sedan, runs good, $35. C. A. WINTERS, EX 9-3897.

SHOTGUN, Springfield, double-barrel, 16 gauge, like new condition, $40. WALLY HENRICH, FRontier 4-5412.

HOUSE, 2-bedroom, stucco, near schools and stores, fenced yard, patio, disposal, price $7800, will take $500 down. W. VON PRILLWITZ, MEnlo 4-7276.

FORD 1938, coupe, radio and heater, transportation car, best offer over $60. JIM GRIFFITH. Reply in writing to Northrop News, Box 1233.

CHEVROLET 1949, sport coupe, very clean, perfect running order, all new rubber, $875, LOUIS GATHIER, MEnlo 4-0341.

FURNITURE—2 piece sectional and chair, corner table, excellent for den or playroom, make offer. BART STALEY, OS 6-7519.

DRAWING TABLE, 48" x 36", Dietzen, like new with T-square and Dzur two tube adjustable fluorescent light, $30, V. D. WESTFALL. Reply in writing to Northrop News, Box 1234.

RADIO-PHONOGRAPH, Zenith table model combination, 4-speed phonograph, like new, $100, or best offer, P. A. VANDER SCHANS, FR. 5-6645.

CHEVROLET, '46 Aero sedan, twin spots, pipes, lowered, very good shape, $435 full price—$250 down. CHARLES GAYLORD. Reply in writing to Northrop News, Box 1224.

FISH AQUARIUM, 15 gallon, stand, pump and all necessary equipment. NORMAN SMITH. Reply in writing to Northrop News, Box 1225.

WARDROBE CLOSETS, two, 6' x 3' x 20", 1 top shelf, double doors, paneled plywood, $20; Easy Spindryer WASHER, good condition, $25. MARGARET BORTNER, PLymouth 5-4759.

MOTORCYCLE, Servi-cycle, 1948 model, good condition, $55. L. CARPENTER. Reply in writing to Northrop News, Box 1232.

PONTIAC, 1948, 8 cylinder, 4-door, radio, underseat heater, new brakes, seat covers, battery, 11,000 miles on engine, immaculate condition, good tires, excellent finish, silent and powerful, forced sale, need cash, offer for equity, GMAC payments $34.05 month. C. L. HENNIGAN. Reply in writing to Northrop News, Box 1231.

STUDEBAKER, 1940, Commander, 4-door, tires and engine good, overdrive, very good transportation car, $100. OLIE WHITE. Reply in writing to Northrop News Box 1230.

HOUSE TRAILER, Aljoa, 15', like new, 1952 model, used only short time, fully equipped, butane apartment stove, sleeps four, electric brakes, etc. Original price $1250 new—will sell for $950, terms, R. DE GIORGIO. Reply in writing to Northrop News, Box 1229.

MERCURY BLOCK, 1947, bored 60 thousandths, flywheel and cam, heavy duty racing clutch and pressure plate, oil pump and valve springs. B. W. LISTER. Reply in writing to Northrop News, Box 1228.

CAMERA, Zeiss Ikon (German made), like new, 75mm, 120 film size, heavy leather carying case included. R. W. SCHURON. Reply in writing to Northrop News, Box 1221.

BREVITYPE MACHINE (shorthand) with case, instruction books and lessons complete, like new, used only 10 months, or trade for what have you. HARRY J. BLACY, Jr., FRontier 2-9794.

WANTED TO BUY

DESERT AIR LAMP, VIOLA HANSEN, OSborne 6-1025.

HOUSE, 2 or 3 bedroom, must be low down payment. Reply in writing to Northrop News, Box 1204.

BABY CRIB or junior bed, M. F. SCHWARTZ, OR 86096.

HOUSE, 2 or 3 bedroom, low down payment, Walteria or Palos Verdes area, R. L. NEATE, OR 7-7438.

GUN, .44 special or .45 revolver, CItrus 3-1072.

OLDSMOBILE 1953 Holiday, blue and white with Hydramatic, will trade '49 Ford for your equity or ? BOB ALLEN, OR 7-9069.

FISH AQUARIUM, 10 or 15 gallon, and equipment, DOVIE GRAHAM, NE 26600.

TAPE RECORDER, would like to buy or rent, TOM BAKER. Reply in writing to Northrop News, Box 1205.

MODEL RAILROAD EQUIPMENT, TT gauge, particularly inexpensive locomotive, 10" radius. W. J. ENGLISH. Reply in writing to Northrop News, Box 1227.

FOR TRADE

DECKED BOAT, 4'x9' sled type, propeller and shaft for inboard motor, dual rudder control, will trade for power tools, LLOYD NEWCOMB, ORchard 7-8924.

CHEV. '37 coupe, good condition, recently overhauled, good tires, will trade for motorcycle or motorscooter. E. J. KIMLING. Reply in writing to Northrop News, Box 1226.

FORD model "A" panel delivery truck, for camp trailer or good two-wheel trailer, WALLY HENRICH, FRontier 4-5412.

RENTALS OFFERED

DUPLEX, one-half unfurnished, one bedroom, garage and washing facilities, one child OK, close to Northrop, $56.50, AVIS G. GRASSL, OR 1-0366 after 4:15 p.m.

ROOMS with kitchen privileges, close to work, $8.50 per week or $32 monthly, RALPH GONZALES, OS 6-7219 days or OS 6-9664 after 6:00 p.m.

APARTMENT, new, furnished early American decor, 3 rooms, $60 month, Venice, RALPH HOPKINS, EXbrook 9-4659.

APARTMENT, large 2 bedroom, unfurnished, garage, ocean view, 3 blocks to beach in Manhattan Beach, $90 month, B. GAIENNIE, FR 4-7426.

HOUSE, 2 bedroom with den, stucco, children O.K., unfurnished, 1 year old, $85 per month, D. D. DETTMAN, OR 2-6164 after 4:00 p.m.

HOUSE, modern, 2 bedroom, double garage, 2 fireplaces, 6 foot brick fence enclosing yard and patio, wall to wall carpets, Venetian blinds, near plant, $100 per month, RALPH M. JOHNSON, PL 55137.

ROOM AND BOARD, men, excellent meals family style, packed lunches, pleasant and congenial group, share the ride plan available, $20 per week. R. D. CREAN, TE 2-9805.

ROOMS, one single and one double (3 day shift men), near plant, private home. Call OSborne 6-6062 after 3:45.

ROOM for two girls, home privileges. RACHEL BARKER, PL 4-8619.

RENTALS WANTED

APARTMENT, at least 3 rooms, furnished, $60 month or $65 with utilities paid, MRS. SHIRLEY J. HISLE, OS 6-9655.

HOUSE, 2 or 3 bedroom, Walteria or Palos Verdes area, R. L. NEATE, OR 7-7438.

APARTMENT, single unfurnished except for refrigerator or apartment completely furnished, near Northrop and shopping center, $60 or less, G. LEES, PL 1-6842.

APARTMENT or house, furnished or partly furnished, young couple and one child need desperately, up to $75, JACK GOLDBERG, MEnlo 46062.

APARTMENT, 1 bedroom, furnished, approximately $60. IRENE BOULAY, OR 2-5910.

HOUSE, 3-bedroom or 2 bedroom and den, 1½ baths, fenced yard, preferably near Manchester and Crenshaw, $80 to $90 per month. JOHN C. GRAVELINE, TWinoaks 9789.

APARTMENT, one bedroom or bachelor, furnished, Inglewood area, $50 or under. Reply in writing to Northrop News, Box 1220.

HOUSE, unfurnished or partly furnished, near Northrop, good care guaranteed, one child. FRANK G. SNYDER, OR 2-0025.

CHILD CARE OFFERED

CHILD CARE—Sunrise Day Nursery, children 2 years and up, day or night, for additional information please contact BLANCHE SANDERS, OS 61786.

CHILD CARE, pre-school, days only, experienced with references, fenced back yard, hot lunches, reasonably priced depending on time and age. H. W. SHERWOOD, OR 8-6879.

(Continued on Page 6)

GOING MY WAY

(Continued from Page 4)

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Plant 3 and El Segundo Buildings)

(Zone 1)

WESTERN & SANTA MONICA BLVD. Hollywood. Travel on Western, Van Ness or Crenshaw. W. J. FORBELL (5534-17, Ext. 1981). HO 5-9121. 12-3-1

(Zone 4)

PARAMOUNT & FLORENCE, Downey, South on Paramount or Lakewood then west on Imperial or Rosecrans to plant. LOUIS R. CARPENTER (7410-14, Ext. 2011-6), TO 9-0524. (12-3-4)

(Zone 5)

ROSECRANS & STUDEBAKER, Norwalk. Want three riders. DEAN GREEN (5518-88, Ext. 2792), TOrrey 32531. (12-3-5)

7:30 a.m. — 4:15 p.m.

(Plants 1 and 2)

(Zone 1)

FLORENCE & VAN NESS, Los Angeles. THELMA MAYERS (5112-28, Ext. 1475), PL 3-6934. (13-1-1)

(Zone 5)

CARSON & STUDEBAKER, Lakewood. Will meet in the vicinity of Carson Park or Lakewood Plaza area. ED CONWAY (9360-19, Ext. 2191). LB 399837. 13-1-5

OLIVE & CENTRAL or WILMINGTON. (Route: Olive, Wilmington, Rosecrans, Vermont, 135th, Normandie, El Segundo, Crenshaw, Broadway by Plant III to Plant I), Compton. R. J. NICKELSON (5128-12, Ext. 1929). (13-1-5)

(Zone 12)

SUNSET & LIVORNO, Pacific Palisades. Route via Ocean Avenue (Santa Monica) though Playa del Rey. JOAN CLARK (5150-24, Ext. 2325) 13-1-12

(Zone 13)

OVERLAND & JEFFERSON, Culver City. GERHARDT F. RECHTIN (5240-23, Ext. 2309 or 2218). 13-1-13

VENTURA & BALBOA, Van Nuys. Would like new members for ride pool, very flexible route. JAMES R. WATSON (3250-58, Ext. 2101). DI 2-6935. 13-1-13

(Zone 14)

SUNSET & LA BREA, Los Angeles 46. Will alternate 8:00 to 4:45. GEORGE P. YOUNG (9400-19,Ext. 1352), HOllywood 4-3425. 13-1-14

ANGELES VISTA & SLAUSON. (Interested in entering or forming car pool. Any street between Crenshaw and LaBrea connecting Slauson.), Los Angeles. HOWARD H. EWART (5127-23, Ext. 1646), AX 2-2318. (13-1-14)

7:30 a.m. — 4:15 p.m.

(Plant 3 and El Segundo Buildings)

(Zone 1)

VERMONT & ADAMS, Los Angeles. Route: Vermont, Adams and/or Normandie. HERB LONGMAN (5530-85, Ext. 2398), PR 2942. 13-3-1

(Zone 5)

OLIVE & CENTRAL or WILMINGTON. (Route: Olive, Wilmington, Rosecrans, Vermont, 135th, Normandie, El Segundo, Crenshaw, Broadway by Plant III to Plant I), Compton. R. J. NICKELSON (5128-12, Ext. 1929). (13-3-5)

(Zone 7)

WESTERN AVE & 169TH, Gardena. TERUO ISHIHARA (3463-133, Ext. 2406). 13-3-7

(Zone 13)

VENTURA BLVD. & RESEDA BLVD. Tarzana. Now in 2 person car pool. CLARK SALISBURY (3530-85, Ext. 1927), DIckens 3-9455. 13-3-13

(Zone 14)

LA BREA & SLAUSON, Los Angeles. Would like to enter or form car pool. W. R. STOELTZING (3510-315, Ext. 2410). 13-3-14

PICO & SAN VICENTE, between LaBrea and Fairfax. (Desire to join car pool. Will take riders), Los Angeles 19. MILTON GRUMMER (3310-87, Ext. 421), WE 1-4320. (13-3-14)

7:30 a.m. — 5:15 p.m.

(Plants 1 and 2)

(Zone 9)

IRENA & AVENUE D. (Interested in car pool or ride.), Redondo Beach. W. F. MARTIN (3350-71, Ext. 778), FR 5-1977. (14-1-9

(Zone 13)

OVERLAND & OLYMPIC, W. Los Angeles. E. MATHEWSON (3230-144, Ext. 438), AR 79830. 14-1-13

7:30 a.m. — 5:15 p.m.

(Plant 3 and El Segundo Buildings)

(Zone 9)

SEPULVEDA & ANZA (near Hawthorne), Torrance. Only interested in car pool. R. N. OLIVER (1810-41, Ext. 2024). 14-3-9

(Zone 13)

OVERLAND & JEFFERSON, Culver City. Will accept car pool. ALVIN MANN (3270-65, Ext. 411), VE 8-2988. 14-3-13

3:45 p.m. — 12:15 a.m.

(Plants 1 and 2)

(Zone 9)

REDONDO (LUCKY'S MARKET), J. J. SHETULSKI (5501-657, Ext. 2200) (16-1-9)

RIDES OFFERED

4:45 p.m. — 1:15 a.m.

(Plants 1 and 2)

(Zone 1)

VIRGIL AND MELROSE AVENUE, Hollywood. Route: Vermont, Adams, Western, 74th to Crenshaw—room for 2. BETTY L. JACOBS (5507-416, Ext. 526), NO 36712. 18-1-1

(Zone 6)

PACIFIC COAST HWY. & ORANGE, Long Beach. PAT B. TEAS (5588-280, Ext. 1529). 18-1-6

(Zone 13)

MANCHESTER & LA BREA, Inglewood. TOM HAMMOND (5585-678, Ext. 1381), OR 7-1241. 18-1-13

(Zone 14)

LA BREA & VENICE. (Interested in car pool.), Los Angeles. J. M. GRIDER (5585-221, Ext. 1381). (18-1-14)

Miscellaneous (Split Shifts)

(Plants 1 and 2)

(Zone 12)

VENICE & OCEAN FRONT, Venice. Would like 2 or 3 riders, will alter route accordingly. (Hours 4:15 to 12:45). ALLEN C. SPENCER (6355-238, Ext. 1611). EX 90654 (between 10:00 a.m. and 1:30 p.m.) 20-1-12

Rides Wanted

7:00 a.m. — 3:45 p.m.

(Plants 1 and 2)

(Zone 1)

WESTERN & SANTA MONICA, Hollywood. Could meet driver in this vicinity or join car pool. JOHN J.OHDE (5354-64, Ext. 2187), NO 2-8766. 2-1-1

PICO & WESTERN or HARVARD, Los Angeles. HERMAN SHAPIRO (5504-162, Ext. 1424). 2-1-1

(Zone 4)

FLORENCE & PARAMOUNT. (Interested in entering or forming car pool), Downey. HAZEL IRWIN (5507-41, Ext. 526), TOpaz 2-0009. (2-1-4)

(Zone 6)

PACIFIC HIGHWAY & ATLANTIC or AMERICAN, Long Beach. ELEANOR T. JAEGER (5507-136, Ext. 526). 2-1-6

FIGUEROA OR BROADWAY & GARDENA BLVD, Gardenia. FELI GENINATTI (5503-191, Ext. 2681). MEnlo 4-6756 after 5:00 p.m. 2-16

COMPTON & WESTERN AVE., Gardena. BOB L. DYER (5504-46, Ext. 1424), ME 4-4020. (2-1-6)

(Zone 7)

DENKER & 220TH, Torrance. DEL YOUNGERS. (5503-353, Ext. 2681), FA 83399 2-1-7

(Zone 9)

INGLEWOOD AVE., & 190TH ST. Redondo Beach. PHALA NAUMAN (5507-167, Ext. 526), FR 92621. 2-1-9

(Zone 10)

PROSPECT & PIER AVE., Hermosa Beach. GLORIA CURDODEAU (5507-157, Ext. 526). 2-1-10

(Zone 12)

HAWTHORNE BLVD. & 120TH, Hawthorne BARBARA SEVERNS (5352-82, Ext. 1508), OS 66054. 2-1-12

INGLEWOOD AVE. & IMPERIAL, Inglewood, SHIRLEY J. ANDERSON (5507-171, Ext. 526), OR 2-5120. 2-1-12

AIRPORT BLVD. & 96TH ST., Los Angeles 45. BEULAH M. WILSON (5151-34, Ext. 688), OR 2-6903. (2-1-12)

PICO BLVD. & CLOVERFIELD BLVD., Santa Monica. W. H. THORNBURGH (5222-355, Ext. 1273). (2-1-12)

MANCHESTER & AIRPORT, Los Angeles 45. VIRGINIA KAYS (5507-179, Ext. 526), OR 7-9167. (2-1-12)

(Zone 13)

INGLEWOOD AVE. & REGENT ST., Inglewood. Ride home only. VICKI STRAHAN (5910-833, Ext. 1565 or 1566. 2-1-13

SEPULVEDA & WASHINGTON, Culver City. F. W. ARNEAUD (5588-29, Ext. 1529), VE 8-2697. 2-1-13

(Zone 14)

PRAIRIE & ARBOR VITAE, Inglewood. CECIL R. FINE (5353-99, Ext. 1953), ORegon 8-9603. 2-1-14

WOODMAN & VAN NUYS BLVD., Pacoima. C. N. DAULTON (5233-19, Ext. 786), EM 9-1924. 2-1-14

CRENSHAW & 51ST, Los Angeles. C. J. BRUEMMER (2710-44, Ext. 2206), AX 1-5648. 2-1-14

7:00 a.m. — 3:45 p.m.

(Plant 3 and El Segundo Buildings)

(Zone 1)

HARVARD & NORMANDIE OR WESTERN, Los Angeles. ROSCO STEWART (5165-80, Ext. 1821 or 1996). (2-3-1)

RIDES WANTED

7:00 a.m. — 3:45 p.m.

(Plant 3 and El Segundo Buildings)

(Zone 1)

WESTERN & 9TH, Los Angeles. ROY T. WALKER (7230-26, Ext. 772), DU 2-0152. (2-3-1)

(Zone 6)

ORCHARD & 161 ST., Gardena. J. Q. ZUTTERMEISTER (5373-119, Ext. 2495), MEnlo 4778. 2-3-6

(Zone 9)

HAWTHORNE BLVD. & 162ND, Lawndale. HELEN BURGASSER (1435-57, Ext. 2761). 2-3-9

(Zone 14)

WEST BLVD & 67TH ST., Inglewood. R. E. JAMES (5588-373, Ext. 1529). (2-3-14)

7:30 a.m. — 4:15 p.m.

(Plants 1 and 2)

(Zone 4)

FIGUEROA STREET & IMPERIAL HWY. Los Angeles 61. CECILIA M. SULLIVAN (7010-17, Ext. 1911), PLymouth 6-4458. 3-1-4

(Zone 5)

CARSON & STUDEBAKER, Lakewood. Will meet in the vicinity of Carson Park or Lakewood Plaza area. ED CONWAY (9360-19, Ext. 2191). LB 399837. 3-1-5

VERMONT & ROSECRANS or EL SEGUNDO, Gardena. MRS. J. BARNETT (7010-27, Ext. 1911). MEnlo 9-1558. 3-1-5

CARSON & ATLANTIC, North Long Beach. RALPH STEWART, 5355-55, Ext. 1304). 3-1-5

OLIVE & CENTRAL OR WILMINGTON. (Route: Olive, Wilmington, Rosecrans, Vermont, 135th, Normandie, El Segundo, Crenshaw, Broadway by Plant III to Plant I), Compton. R. J. NICKELSON (5128-12, Ext. 1929). (3-1-5)

(Zone 6)

BUDLONG & 169TH OR VERMONT & 169TH, Gardena. PAM SRADER (4280-15, Ext. 2456). (3-1-6)

(Zone 8)

CRENSHAW & 185TH, Torrance. W. J. GRAVEN (4220-46, Ext. 642). 3-1-8

WESTERN AVE. & 235TH, Torrance. YVONNE BOWERMAN (1441-41, Ext. 691), DA 64787.

(Zone 12)

DOTY & CENTURY, Inglewood. CAROL WATSON (5003-15, Ext. 2455 or 2309).

SEPULVEDA & 79TH, Los Angeles 45. DOLORES ROCHFORD (9320-32, Ext. 2151), OR 7-8109. 3-1-12

(Zone 13)

OVERLAND & JEFFERSON, Culver City. GERHARDT F. RECHTIN (5240-23, Ext. 2309 or 2218). 3-1-13

VENTURA & BALBOA, Van Nuys. Would like new members for ride pool, very flexible route. JAMES R. WATSON (3250-58, Ext. 2101). DI 2-6935. 3-1-13

REGENT & LOCUST, Inglewood. NOLA McCANDLESS (5151-26, Ext. 687). 3-1-13

CENTINELA & JEFFERSON, W. Los Angeles. ELLEN WISE (4300-19, Ext. 2436). 3-1-13

(Zone 14)

SUNSET & LA BREA, Los Angeles 46. Will alternate 8:00 to 4:45. GEORGE P. YOUNG (9400-19,Ext. 1352), HOllywood 4-3425. 3-1-14

CRENSHAW & PICO, Los Angeles. LA VERNE ASZMAN (7030-15, Ext. 1675), REpublic 6593). 3-1-14

CRENSHAW BLVD. & 48TH ST., Los Angeles. VIRGINIA CARSON (9320-62, Ext. 1681). AX 14523. 3-1-14

ANGELES VISTA & SLAUSON. (Interested in entering or forming car pool. Any street betwen Crenshaw and LaBrea connecting Slauson.), Los Angeles. HOWARD H. EWART (5127-23, Ext. 1646), AX 2-2318. (3-1-14)

7:30 a.m. — 4:15 p.m.

(Plant 3 and El Segundo Buildings)

(Zone 4)

IMPERIAL & FIGUEROA ST., Los Angeles. ANNETTE APODACA (1441-82, Ext. 2393), PL 6-4508. (3-3-4)

(Zone 5)

OLIVE & CENTRAL OR WILMINGTON. (Route: Olive, Wilmington, Rosecrans, Vermont, 135th, Normandie, El Segundo, Crenshaw, Broadway by Plant III to Plant I), Compton. R. J. NICKELSON (5128-12, Ext. 1929). (3-3-5)

(Zone 7)

WESTERN AVE & 169TH, Gardena. TERUO ISHIHARA (3463-133, Ext. 2406). 3-3-7

(Zone 10)

PRAIRIE or HAWTHORNE BLVD. & 133RD Hawthorne. SHIRLEY J. HISLE (8620-110. Ext. 2011), OS 6-9655. 3-3-10

(Zone 12)

SEPULVEDA BLVD. & 77TH, Los Angeles 45. ARLENE HILLSTROM (5351-19, Ext. 2582), OR 1-4012. 3-3-12

(Zone 13)

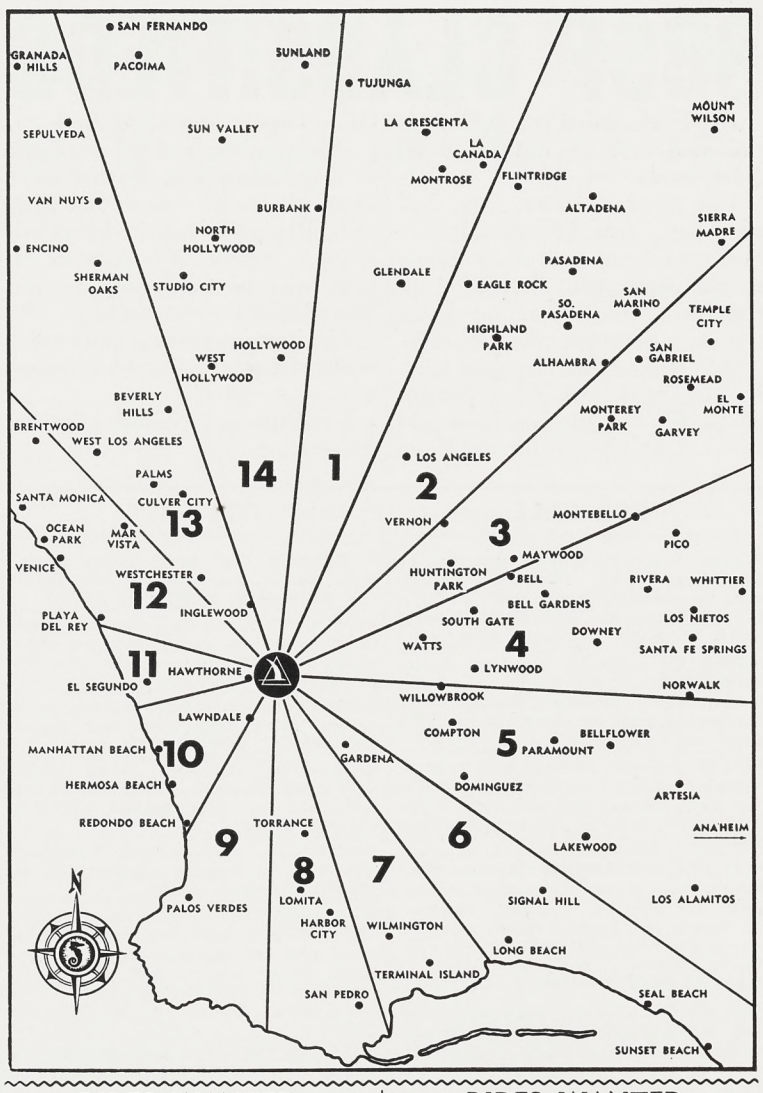
VENTURA BLVD. & RESEDA BLVD. Tarzana. Now in 2 person car pool. CLARK SALISBURY 3530-85, Ext. 1927), DIckens 3-9455. 3-3-13

HYDE PARK & LA BREA, Inglewood. GERALDINE SWINEY (8620-107, Ext. 2011), OR 75279. 3-3-13

(Zone 14)

LA BREA & SLAUSON, Los Angeles. Would like to enter or form car pool. W. R. STOELTZING (3510-315, Ext. 2410). 3-3-14

PICO & SAN VICENTE, between LaBrea and Fairfax. (Desire to join car pool. Will take riders.), Los Angeles 19. MILTON GRUMMER (3310-87, Ext. 421), WE 1-4320. (3-3-14)



RIDES WANTED

7:30 a.m. — 5:15 p.m.

(Plants 1 and 2)

(Zone 3)

WESTERN & 108TH, Los Angeles. JANET DOUGLAS (5960-825, Ext. 2631), PL 4-2726. (4-1-3)

(Zone 9)

IRENA & AVENUE D. (Interested in car pool or ride), Redondo Beach. W. F. MARTIN (3350-71, Ext. 778), FR 5-1977. (4-1-9)

(Zone 12)

INGLEWOOD & LENNOX, Lennox. BILL COOK (3230-549, Ext. 2659). 4-1-12

7:30 a.m. — 5:15 p.m.

(Plant 3 and El Segundo Buildings)

(Zone 9)

SEPULVEDA & ANZA (near Hawthorne), Torrance. Only interested in car pool. R. N. OLIVER (1810-41, Ext. 2024). 4-3-9

(Zone 10)

PIER & HERMOSA AVES., Hermosa Beach. D. E. MORRISON (3410-62, Ext. 452).

(Zone 13)

OVERLAND & JEFFERSON, Culver City. Wil laccept car pool. ALVIN MANN (3270-65, Ext. 411), VE 8-2988. 4-3-13

8:00 a.m. — 4:45 p.m.

(Plants 1 and 2)

(Zone 4)

NORMANDIE & IMPERIAL, Los Angeles. NAOMI ANDERSON (5507-169, Ext. 526). (5-1-4)

3:45 p.m. — 12:15 a.m.

(Plants 1 and 2)

(Zone 6)

WESTERN & 8TH, Los Angeles. PHILIP SCHNEAR (5588-426, Ext. 522), DUnkirk 2-0068. 6-1-1

(Zone 9)

REDONDO (LUCKY'S MARKET), J. J. SHETULSKI (5501-657, Ext. 2200). (6-1-9)

4:45 p.m. — 1:15 a.m.

(Plants 1 and 2)

(Zone 2)

SAN PEDRO & 7TH, Los Angeles. Another person going to the same address wishes ride also. JOHN E. BABINEAU (5373-252, Ext. 1546). 8-1-2

(Zone 4)

LONG BEACH BLVD. & STOCKTON AVE., Lynwood. Pick up in front of Sears in Compton. CLARENCE J. FORMANECK (5503-613, Ext. 2681), NEwmark 1-7508. 8-1-4

(Zone 6)

ROSECRANS & WESTERN, Gardena. L. G. CANNON (5507-412, Ext. 526). 8-1-6

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Plants 1 and 2)

(Zone 9)

HAWTHORNE BLVD. & 161ST ST., Lawndale. Ride to work most important. J. J. ADAMS (6150-211, Ext. 579). 8-1-9

(Zone 10)

ROSECRANS & DOTY AVE., Hawthorne. Prefer to ride with a woman. PATRICIA A. HOSE (5352-229, Ext. 1445), OS 5-4998. 8-1-10

(Zone 12)

IMPERIAL & HAWTHORNE BLVD., Lennox. FRANCES S. CLEMONS (5507-458, Ext. 526). 8-1-12

(Zone 13)

EUCALYPTUS & BALLONA ST., Inglewood. E. M. GALVAN (5544-439, Ext. 2645). 8-1-13

(Zone 14)

BEVERLY BLVD. & FAIRFAX AVE. or LA BREA, Los Angeles. CHRISTIE BOYKIN (5373-239, Ext. 537). WEbster 8-9293.

LA BREA & VENICE. (Interested in car pool.), Los Angeles. J. M. GRIDER (5585-221, Ext. 1381). (8-1-14)

Miscellaneous (Split Shifts)

(Plants 1 and 2)

(Zone 9)

RINDGE LANE & MARSHALL FIELD LANE, Redondo Beach. Must have a ride home, would wait until 1:15 a.m. (Hours 4:15 to 1:00). PAT JACQUES (6150-217, Ext. 1524). FR 2-0995. 10-1-9

(Zone 12)

McCONNELL AVE & 80TH, Los Angeles 45, Westchester (Hours 7:00 to 4:45). E. R. SNYDER (5920-95, Ext. 2612 or 2613), OR 2-7813. 10-1-12

Lynwood

RIDES WANTED

7:00 a.m. — 3:45 p.m.

(Zone 13)

HAWTHORNE BLVD. & 140TH ST., Inglewood. Prefer ride, but will enter car pool. DELL W. SHANKS (6378-56, Ext. 224), NE 25792. 2-Lynwood-13

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 13)

HAWTHORNE BLVD. & 140TH ST., Inglewood. Prefer ride, but will enter car pool. DELL W. SHANKS (6378-56, Ext. 224), NE 25792. 12-Lynwood-13

BBSF CLASSIFIEDS

(Continued from Page 5)

CHILD CARE WANTED

CHILD CARE—two girls ages 6 and 8, 3:00 p.m. to 12:30 a.m., live in or out. Room and board plus $50 monthly or $65 and live out. GRACE CAMERON, OR 1-3798.

— READ BBSF —

PERSONALS

THANK YOU friends for the wonderful gifts and all the kindness extended to us at Christmas time. MR. AND MRS. GEORGE H. GRILL.

WANTED: woman to take care of elderly woman invalid, live in, private room, board and salary. J. SEYMOUR. Reply in writing to Northrop News, Box 1222.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below, call or contact Personnel Activities and Services. Plant One, 2784; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BASKETBALL CLUB (day)
Larry Baird, acting commissioner
Scheduled practice Monday & Thursday evening 7:45 to 10:00, Leuzinger High School Gym.

BASKETBALL CLUB (night)
Available practice sessions at Rosecrans Playground, 149th and Vermont, Gardena—Monday and Tuesday mornings, 10:00 to 12:00.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily, Plaster Shop tent 11:00 a.m. Plt. 1; Second Floor, center conference rm. Plant 11, 12:30; Conference Rm. 5, 12:15 Plant Three.

BOAT CLUB
Harold Senter, commissioner
Next meeting Monday, February 1, at 7:30 p.m., NRC Clubhouse. Election of officers to be held.

BOWLING (days)
Chuck Carson, commissioner
Annual Spring Tournament May 1 & 2. Entry blanks available at PA&S on March 29.

BRIDGE CLUB
Bill Giose, acting commissioner
Starting in January will meet 2nd & 4th Tuesday each month. Next meeting Jan. 26, NRC Clubhouse.

CAMERA CLUB (day)
Walt Darby, commissioner
Meet 2nd and 4th Friday of month, NRC Clubhouse. Next meeting, Jan. 22.

CAMERA CLUB (night)
Adam Siusarz, acting commissioner
Meet 2nd & 4th Saturday of month. Jan. 23, NRC Clubhouse.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (day)
Jim Milne, commissioner
January Tournament to be announced on bulletin boards.

GUN CLUB
Meet every other Tues., 7:30 p.m., NRC Clubhouse. Next meeting Jan. 19.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m. Call PA&S for information concerning meeting place.

PHILATELIC CLUB
George Borton, commissioner
Philatelic & Numismatic combined club meets 2nd and 4th Monday each month. Next meeting Jan. 25, NRC Clubhouse, 7:30 p.m.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun. Jan. 17, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, Jan. 14.

SEA SCOUTS
Frank Ziegler, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Jan. 23. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Jan. 29, NRC Clubhouse Board Room.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse.

SQUARE DANCING
Dave Dyer, commissioner
Beginning Sunday, Jan. 24, group will meet at Swimms Barn, 15016 Daphne St., Gardena, from 7:00 to 10:00 p.m. Will meet 1st, 2nd, 4th & 5th Sunday of each month.

SURF FISHING
Ted Griswold, acting commissioner
Meet 1st Thursday each month, NRC Clubhouse, 7:30 p.m.

TOASTMASTERS 212 (day)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS 1398 (night)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon. Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Orval Coley, commissioner
Meet Wednesday, Jan. 27, 7:30 p.m., NRC Clubhouse.

Holiday Keg Meet Draws 400 Entries

Four hundred entries set a fast pace to start off the 1954 bowling season at the NRC Christmas Bowling Tourney — held December 27 at the Hawthorne Bowl. Commissioner Chuck Carson expressed much enthusiasm for a top bowling season and has already made plans for the Annual Spring Tournament to be held at Hawthorne Bowl on May 1 and 2.

Entry blanks will be available after March 29 — with deadline for entries of 16 April.

In the holiday event Roger Gard and Betty Rice shared honors for high scratch series—Roger shot 620 for men and Betty 646 for women.

Irene Langland took women's high game and Paul Buracchio took high game for the men with scores of 247 and 253, respectively.

First, second and third place results of the tourney are as follows — all scores are with handicap:

MEN'S SINGLES

1. Chamberlain	625
2. Bentley	612
3. Stewart	605

WOMEN'S SINGLES

1. B. Rice	713
2. M. Howsare	615
3. I. Langland	608

MEN'S DOUBLES

1. Gard - Elder	1245
2. Lowry - Eckert	1200
3. Kollatz - Hynes	1164

WOMEN'S DOUBLES

1. Howsare - Langland	1310
2. Bolles - F. Rice	1170
3. Vincent - B. Rice	1129

MIXED DOUBLES

1. Paulsen - Garbett	1172
2. Howsare - Howsare	1152
3. Broberg - Stewart	1145

TEAM

1. GUESS WHAT (?)	2914
2. LYNWOOD CHOPPERS	2896
3. STRIKES TO SPARE	2827

First place winners in each division will receive NRC trophies on or after January 18, 1954, in the PA&S offices at Plant 1.

VILLAGE BARBERSHOP QUINTETTE is the name adopted by five Norcrafter bowlers and their sponsor, George Russell, owner of the Village Barbershop, 11429 Crenshaw Blvd. The team is presently bowling in the 865 scratch league at Hawthorne Bowl on Friday nights. From left: George; Wes Carr, Finance; Loren Hamilton, Tabulating; Chuck Carson, Industrial Engineering; Bob Brison, Engineering. Fifth member of the team, not shown in photo, is Jim Stewart, Engineering. (See above for other kegling news.)

Official Family

NEWLY ELECTED officers for the Toastmistress' are pictured from left; secretary—Louise McCulloch, Timekeeping; vice-president—Dorothy Lewis, Jig Construction; president—Peggy Barber, Accounts Payable; treasurer—Thelma Dodson, Assembly Stores; and council representative—Elsie Hicks, Quality Control. Installation dinner, highlighted by speech by Judge Georgia Bullock, was held on January 7.

NORCRAFTER SCOUTERS MAKE PLANS FOR BIG SCOUT WEEK IN FEBRUARY

Boy Scouts of America will celebrate its 44th birthday—Boy Scout Week—just a calendar's turn away. February 7 through 13, Norcrafter Unit leaders and Junior Norcrafter Cubs, Scouts and Explorers will honor, with 3,300,000 across the land, the organization which has contributed so much to boyhood.

Locally throughout Boy Scout Week, Scouting will be evidenced in window displays, live expositions and troop and other unit parties.

Spectacular windup will be the final-day Jamboree in Shrine Auditorium, and the nation-wide Boy Scout Week radio program from that site.

Meanwhile, plans are under way for a Northrop Scout family, consisting of the present Mariners and Sea Scouts, and adding troops of Boy Scouts, Girl Scouts, Cubs, and Brownies. Details of Norcrafter participation in these organizations will be announced at a later date.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard

BASKETBALL
Practice sessions at Green Meadows Playground, 431 E. 89th St.—Every Tues. night, 7 p.m.

BOWLING
Florence Rice, commissioner
Ladies Handicap League in progress at Torrance Bowl, Tues. 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Interested ladies please contact PA&S.

FLOWER CLUB
Mary Nelson, acting commissioner
Meet first and third Tues. of each month. NRC Clubhouse, 7:30 p.m. New members welcome.

GOLF CLUB
New series of golf lessons now available Culver City Course. Tues. 7 p.m. For information, call PA&S, 2784.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse. New project: Drapery making.

KNITTING CLUB
Nina Shannen, acting commissioner
Meet Wednesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP MARINERS
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Marie L. Sauer, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 p.m. to 6:30 p.m. Baby sitting provided if requested. New members welcome.

Yule Party Related By NRC Prexy

By Joe Cribbs
President
Northrop Recreation Club

Vote of thanks and appreciation from all Norcrafters goes out to the NRC Special Events Committee that did such a remarkable job of putting on the annual Santa Claus party for the Juniors. This committee consists of Chairman Ash Dunning, Don Danner, Walt DeVore, Larry Baird, and Mrs. Ash Dunning. Many small hearts were made big that day due to the efforts of these folks. The affair, as you all know, took place at the NRC Clubhouse. The toys were of unusually good quality and—happy day for the youngsters—each child was allowed to make a selection, and to top it off each child received candy from Santa. Over 1800 toys were given away! Top improvement was the way the line moved this year. The kids got to Santa real fast, due to the forethought and planning of the Special Events Committee. It was a great day!

Joe Cribbs

★ ★ ★

The doll dressing contest, always a headliner at Northrop since inception, was a headliner this year. (And like all good things, the doll dressing contest has caught on, but with vengeance, around town. What edition of the metropolitan papers can you pick up around Christmas time that doesn't have a picture of a group of welfare-minded people presenting a truck-load of dolls to little girls in a needy organization? And we can be proud of the fact that we started it all—'way back in 1949.) This year 200 dolls were dressed and they were all given to the Olive View Sanitarium. Mona Freeman, movie actress, did a sterling job of judging. Norcrafter ladies who won were: best dressed — First prize—Jewel Bennett, $25 Savings Bond; Second prize—Lucy Lewandowski, $15 gift certificate; Third prize—Dorothy Fisher, Anaheim, $10 gift certificate; Most unique dressed—First prize—Marion J. Price, $25 Saving Bond; Second prize—Mary Lou Wells, $15 gift certificate; Third prize—Fern Scoglione, $10 gift certificate. (See Photos — page 8)

DISCOUNT DUCATS FOR PALLADIUM SATURDAY DANCE

Harry James and his Music Makers will provide the rhythm for Norcrafters and many others on Saturday, January 16, 1954, at the Hollywood Palladium.

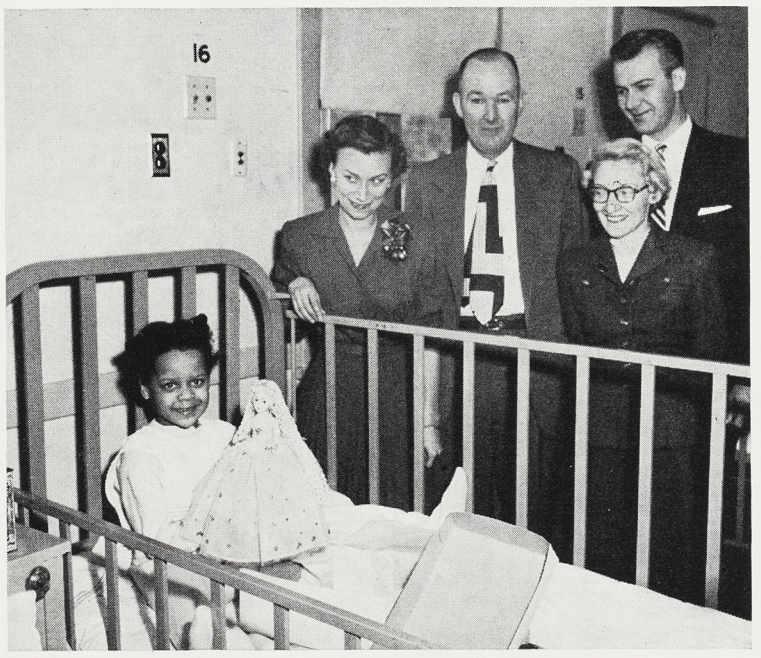
Free discount tickets are available for all Norcrafters at PA&S offices in Plant One and Plant Three.

Tickets are free at these offices. Pay only 70c at the box office.

THE *Northrop Scene* BY DAY AND NIGHT

Tops in Factory Housekeeping

GOOD HOUSEKEEPING champion among Factory departments during November was the Plastic Shop (5509). Supervision of department, both day and night shifts, gathered to accept title poster from Gary Hard, coordinator of program. From left: A. I. Prescott, Woody Jones (assistant superintendent), Chuck Zeller, (superintendent), Wayne Morrison (assistant superintendent), Loyal Massey, (department head), Gary Hard, George Babajian, (night foreman), Bill Morgan (factory superintendent), Francis Zahller, W. A. Sadesky, and L. W. Atkins. Departments 5508, 5517, and 5515 were runners-up.



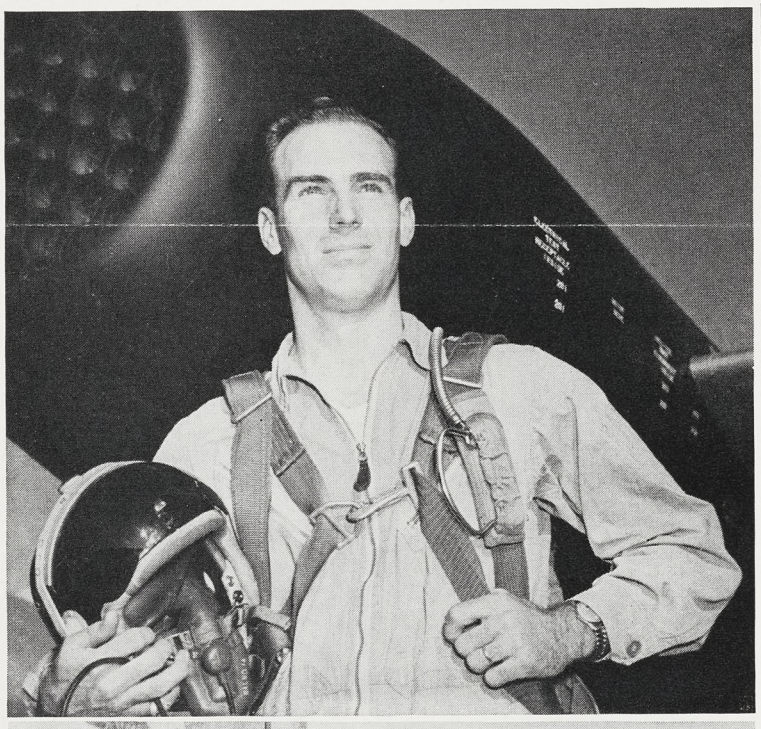
FIRST PRIZE, Best Dressed, doll in Northrop Doll Dressing contest, dressed by Jewell Bennett—Process Paint, was given to this happy child at Olive View Sanitarium. Pleased onlookers are from left: Hilde White, PA&S; Harry K. Osborne, director of Olive View; Frances Ferguson, recreational director of Olive View; and Joe Carver, NRC vice-president.

Oh, Happy Day!

DELIGHTED smile on face of tiny patient at Olive View Sanitarium gladdens hearts of Virginia (Mrs. Walt) DeVore, NRC Women's Auxiliary, and Betty Johnson, PA&S. Little girl holds doll from Fern Scoglione, Flight Controls, judged third Most Unique in Doll Dressing contest. All dolls went to children at Olive View. Judge of contest was Mona Freeman, movie actress. For more details and complete list of winners—see NRC president's column, page 7.

Korea Ace

KOREAN ACE Clifford D. Jolley is new Scorpion test pilot. As captain in USAF, Jolley knocked down seven MIGs in combat, plus one probable and five damaged. New Norcrafter Jolley has been assigned to Ontario, where he will help ready Scorpions for delivery to AF. Jolley flew in Korea with another Norcrafter jet ace, Bob Love, Military Relations. . . .



Florida Praise

INDUSTRIAL RECREATION students of Los Angeles State College recently were presented, via Instructor Dorothy O'Brien, "key" to success in field by Charles Boyle, right, who heads Northrop's famed PA&S program. Boyle gave tips on successful formation of well-rounded industrial recreation program. Student Herman Cohen, left, directs Santa Monica's recreation. Class toured club house as regular session.

CONFERRING WITH Florida Norcrafters last November, Ed Schmued, Engineering vice-president, and Dr. Bill Ballhaus, chief engineer, were guests and featured speakers at Patrick AFB Officers' Club. Both expressed appreciation and praised accomplishments of Northrop's missile test facility. From left—C. A. Kerner, MTF deputy chief; Verl Smith, chief; Schmued; Rod Hoover, Management Club v-p who welcomed twosome; Ballhaus; and R. M. Warner, Operations analysis. Engineering reorganization was discussed.

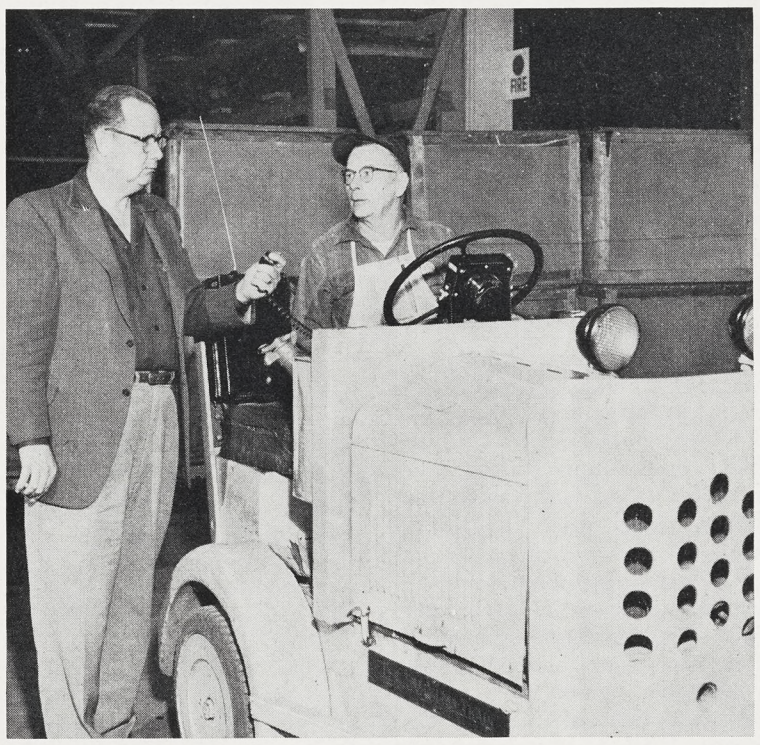
Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California — Wednesday, January 27, 1954

Steel Extrusion

(See Page Two)

Two-Way Radio Communication Expedites Internal Transportation Pick-ups



VIA TWO-WAY radio, Bob Curran, (above) night shift Internal Transportation dispatcher at the controls of fork-lift, communicates with central dispatch station to verify destination of these Scorpion leading edges. (In this case they were on their way to saws in Sheet Metal).

BRIEF indoctrination on use of mike for conversing with dispatcher is given by Assistant Supervisor Ken Tary, left, to Driver Ray Taylor. Both are Internal Transportation Norcrafters. Compact, completely waterproofed unit is affixed to instrument panel.

ALMOST IMMEDIATE contact can be established with Internal Transportation drivers for special pick-ups as result of installation of a two-way radio system by Manufacturing Control. At central dispatch station Dave Carney, left, directs driver via radio, while Dave Walter answers call for another pick-up. (Complete story in this issue, page three).

Norcrafters' Insurance Benefits Up

Norcrafters were advised earlier this month of an increase in the benefits payable under the Hospital and Surgical group insurance program.

The increases, a plant-wide bulletin explained, became effective on January 1 and include an increase in the maximum room and board daily hospital benefit (from 11 to 13 dollars); an increase in the maximum payment for other allowable hospital services (except maternity) from $220 to $260; and a boost in the maximum surgical benefit from $225 to $350.

The changes, it was pointed out, apply only to Norcrafters. Dependents' coverage remains the same as previously.

The increases resulted from a change in disability benefits payable under California law to individuals off work because of non-industrial accident or illness.

The state law formerly pro-

(Continued on Page 2)

BOUNDARY LAYER RESEARCH STUDY

NORTHROP AIR FORCE CONTRACT

Northrop has been awarded a new U. S. Air Force contract for extensive boundary layer control research, a recent Company announcement discloses.

Norcrafter engineers are investigating methods of improving the aerodynamic characteristics of airplane wings by experimenting with various devices designed to draw off part of the boundary layer—the layer of air immediately adjacent to the airplane's exterior surfaces.

Boundary layer experiments have been conducted by Northrop personnel for several years, but the announcement marks the first time the Company has been permitted to disclose that it has received a new government contract for these studies.

It is believed that the application of boundary layer control devices to aircraft surfaces could considerably extend the range of an airplane and reduce the power required to fly it.

The boundary layer studies are under the direction of Dr. Werner Pfenninger, his assistant, Roger Moore, and a group of highly-trained specialists.

Palmdale Color Pictorial Featured In This Issue

Norcrafters, in answer to many reader requests, will find a four-color-cover insert of eight pages with this issue of the Northrop News, dealing with life in the Antelope Valley. The Company's newest facility, part of famed "Jetville, U.S.A.", is being built at the Palmdale Airport.

Personnel have been eagerly awaiting the opening of the new facility since first announcement of the base—and a call for interested Norcrafters to sign transfer data cards—was made in the December 2, 1953, issue of the News.

The insert, colorfully describing life and opportunities in the Antelope Valley, has been a cooperative venture of the Northrop News, the Public Relations department, Manufacturing, Industrial Engineering, and Customer Relations.

The striking color cover of the insert is a painting by Ray Wallace, Art Service (8320), from a color photograph taken by Sam Orr, Muroc photographer. Shepherding the cover through engraving shop and printing processes were Norton Kinder and Weber Buckham, of Art Service.

Photos, unless otherwise credited, are by Paul Wheeler, Northrop photo lab. Text was written by Ralph Hopkins, Statistical Quality Control, on joint loan to Industrial Relations and Public Relations.

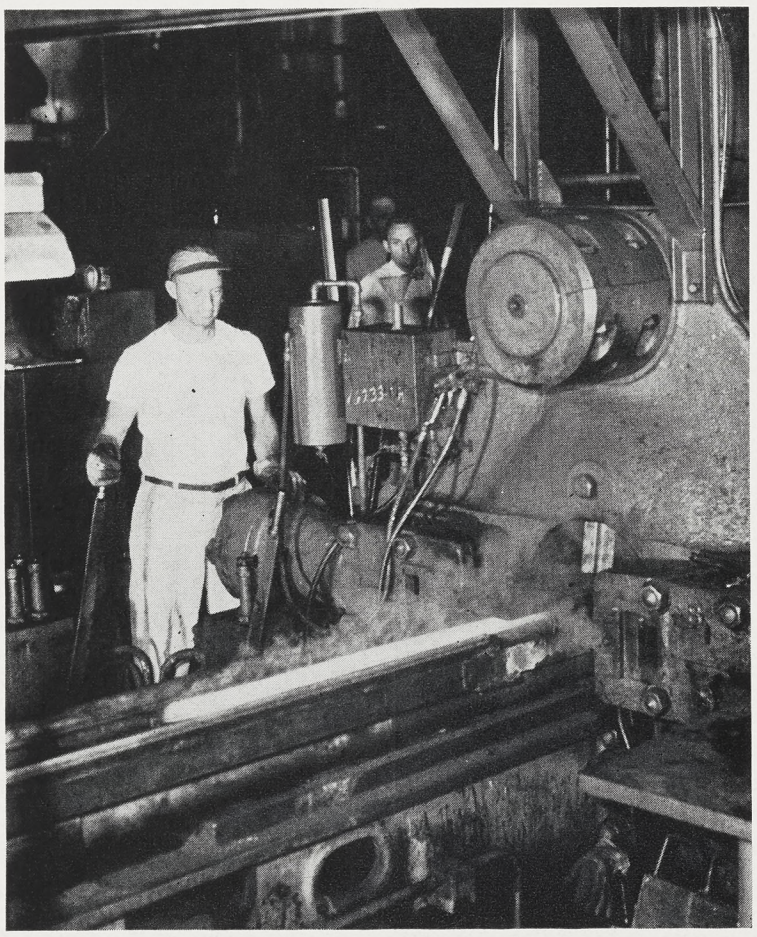
The pictorial was in preparation over the past six months.

SAE Autumn Meeting

SAE AERONAUTIC Meeting and Aircraft Production Forum next fall will have General Oliver P. Echols, right, as sponsor. At left in photo above is Douglas Santa Monica Plant Manager H. W. Thue, who will be general chairman of meeting. First half of the meeting, which will be held at the Hotel Statler, consists of production forum; last half is highlighted by presentation of technical papers, discussions.

Inter-Company Teamwork

SHARING IN SUCCESS of steel flap track extrusion program are Northrop and Harvey Machine personnel shown in photo. Seated, from left: Jack Berry, Wes Smith, Purchasing; Lyle Christensen, Producibility Engineering; Ed Tilley, Northrop metallurgist; John Van Hamersveld, Producibility Engineering. Standing: Jack Spraker, Harvey sales engineer; Eric Berg, assistant chief metallurgist, and Gib Moudry, chief metallurgist, both of Harvey. Samples of extruded materials are on table; they include T- and L-shaped steel flap track extrusions, plus I-shaped titanium extrusion. Van Hamersveld holds a finished section.



EXPERIMENTAL steel extrusion comes snaking out of press at 2200 degrees Fahrenheit at the Harvey Machine Company, Torrance. Press operator is Ted Richter. Photo was taken during experimental run on extruded steel flap tracks for Scorpion; Harvey is now running production order as result of success encountered in experimental stages of the program. Steel emerges at one thousand feet per minute!

ONE HUNDRED MILLION WATCH '89 GRAND SLAM ROCKET PUNCH MOVIE

After secrecy wraps were removed from the rocket armament of the D-series "Grand Slam" Scorpion, over 100 million people watched, in one month alone, the film showing the F-89's Sunday punch being hurled from wing-tip pods.

Figures received by the Public Relations division show that 94 million people viewed the picture while sitting in 1700 theaters throughout the U.S., Canada, Great Britain, Africa, South America, Mexico, France, New Zealand, Australia, and Alaska.

Over 300 TV stations throughout the world obtained the four-minute footage showing the rocket firing; 67 more used a shorter version.

(General details of the rocket armament of the "D" were released early in September. Detailed information is still classified, however).

Distribution of film footage showing newsworthy Northrop achievements is one of the responsibilities of W. G. "Bill" Cox, motion picture coordinator in the Public Relations department.

NORCRAFTERS IN PUBLICATIONS ON FIELD TRIP

A series of field trip excursions for Publications section personnel of Customer Relations division has recently been inaugurated, according to Harold Pershing, Art Service supervisor, with a tour of the Economy Lithograph facilities.

First of the series, initial tour gave 70 Norcrafter writers, artists, and production personnel of the section the chance to view processes involved in offset printing and lithography.

Other similar facilities are on the agenda for future tours, Pershing, idea-man for the series, reports.

Insurance

(Continued from Page 1)

vided for payment of $30 weekly disability benefits; to this the majority of Norcrafters have chosen to add supplemental insurance, costing 20 cents per week, which would pay them, in case of disability, an additional ten dollars per week . . . or a total of $40.

When the state payment increased to $35 on January 1, it became necessary for Norcrafters to provide for only five dollars more to maintain the $40 benefit. The change made it possible to cut the weekly supplemental insurance payment in half, and to apply the ten-cent cut to the hospital and surgical program.

Norcrafters who are not under the supplemental plan will have ten cents additional deducted from their weekly paychecks to cover the hospital and surgical benefits, if carried.

Likewise, personnel who do not carry the group hospital insurance will have ten cents less deducted weekly.

Steel Extrusion Advance By Company Vendor Team

A notable contribution in the field of steel extrusions has been credited to Northrop recently, with the placement of a full production order—believed to be the first in the aircraft industry—for a number of extruded steel flap tracks.

The order caps the coordinated efforts of a team of Engineering and Purchasing Norcrafters and extrusion experts of the Harvey Machine Company, Inc., Torrance, that began, really, two years ago.

As part of an industry-wide study coordinated by Lockheed under the auspices of AMC, Norcrafters submitted the flap track for study as a production part possibly suitable for steel extrusion.

(The tracks were formerly machined from bar stock, with attendant waste of material. They could be rolled, studies showed, but at too high an expense for quantities required in aircraft production).

When it was determined that the tracks might be produced efficiently and economically by extrusion, the Harvey Machine Company accepted the challenge involved. With the encouragement and cooperation of Norcrafters, Harvey personnel began experimental work, adapting an aluminum extrusion press for steel.

They found that by the use of relatively inexpensive dies they could extrude 4340 chrome-nickel-moly steel to close tolerances with a minimum of waste; and that steel could be extruded at 2200 degrees Fahrenheit at the rate of a thousand feet per minute! Aluminum extrusions are made at far lower heats and at lower rates of speed.

The tracks, upon delivery to Northrop, need only skin machining, and drilling for installation.

Savings will amount to more than $20,000 on one contract alone, Producibility Engineering Norcrafters state, and the development has opened up a potential wide field of use for the process, including possible extrusion of tracks for ejection seats.

The savings will increase even more, it is pointed out, as the process is developed further. Part of the Lockheed study showed, furthermore, that titanium—of increasing use in aircraft—can also be extruded.

The coordinated effort saw several departments taking part. Producibility Engineering, under Supervisor John Van Hamersveld, submitted parts to the Lockheed program and evaluated studies with particular application to Scorpions and missiles.

Process Engineering Norcrafters performed metallurgical investigations; a number of Purchasing personnel, including Wes Smith and Jack Berry, arranged for placement of the order and its attendant negotiations. Lyle Christensen, Producibility Engineering casting and forging consultant, followed up the program from beginning to end.

All concerned were high in their praise of the Harvey concern, calling it "a highly progressive outfit in research and development programs". They agree, too, in foreseeing a bright future for steel extrusion in the aircraft industry.

Florida Fish Stories Are True Tales

Many a Florida fish has appeared in the pages of Northrop News hanging vertically, and thanks to details sent by Peggy Willis, Industrial Relations, out-of-Florida Norcrafters can now get a better briefing on just what goes in those Florida fishing waters.

Stuart, some 80 miles from Melbourne, is the famous fishing town from which groups of Norcrafters sail for open water on almost any weekend. Catching one of Captain Whitticar's fleet of four boats—each manned by one of the best captains in these waters—the Isaac Waltons are off for the sea.

Barracuda, amber-jack and dolphin wait in the deep. And likelihood is strong that someone will 'boat a sail'.

Boating a sailfish is a fete which marks the catcher for honorary membership in the Stuart Sailfish Club. Prized symbol of such membership is the silver pin, formed like a sail, which the fortunate sportsman receives.

Mat Conservation minded Patrick folk do not necessarily keep the sailfish they've boated, and such is not required in order to remain a member of the Stuart Sailfish Club. As a matter of fact, it's an unwritten code to sailfishermen that they should not keep their catch unless they have definite use for the game. Mounting, or smoking, are possible uses, though the latter is frowned upon.

Peggy Willis reports no lack of interest in the Patrick Fishing Club is anticipated while Florida waters remain baited for Norcrafter pleasures like boating a sail.

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Vol. 12 Northrop Field, Hawthorne, Calif. No. 13

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JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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Handicapped Norcrafter Acclaimed For Heroism

HEROIC BIG BROTHER—This photo, which appeared with story in Los Angeles Times last Wednesday, shows Norcrafter Reg Griffin, Electrical Production, with dad, Leonard, after son's heroic rescue of smallest sister, Diane.

Reginald Griffin, 19-year-old Norcrafter of Electrical Production, leaped into heroic action and into the hearts of millions last week when he rescued his sister, five-year-old Diane Griffin, from death after her nightgown caught fire.

Acclaimed by the press throughout Southern California, Griffin's reaction to the emergency has since been voiced time and again among his friends at Northrop.

Norcrafter Griffin's use of his limbs has been handicapped since he was afflicted at 18 months with polio, though he is now able to walk without crutches or braces almost normally.

He had been awakened by his dad, Leonard Griffin, who had then stepped from the house, located at 193rd and Western Avenue near Torrance, to the trailer in back, where breakfast was in preparation. Reginald dozed.

Suddenly, from the next bedroom where slept Shirley Ann, 11, and Diane, came the terrified cries of the smaller sister. Reg started, then came wide awake.

Seeing Diane with her night clothes in flames, Reg frantically called to her while plunging from his bed to scramble after her on hands and knees.

But little Diane was frightened. She ran out from her room into the kitchen, then through the dining room and into the living room.

She had reached the front room and had apparently meant to leap through the window before Reginald caught her.

Dad Griffin came on the run, arrived in time to help Reg put out the fire.

Wrapping Diane in a blanket and grabbing Reginald's car keys on the way out, the elder Griffin rushed Diane to Harbor General Hospital. Diane delivered, father Griffin rushed immediately back.

Sitting calmly inside was Reg, his hands and a portion of his legs with second degree burns. Dad Griffin returned again to the hospital, this time with his son.

Later, as the news of the Griffin family misfortune spread, the will-to-assist, which always makes itself apparent in times of stress, welled up from sympathizers like a rising tide.

Of particular note and importance was the coverage of the press which prompted gratifying response from both the public and Norcrafter friends alike. People called, wanting to help.

Harbor General reports that there were a great many calls offering blood. Both the Griffins and Harbor General have expressed heartfelt appreciation for this response.

As a Norcrafter family, the Griffins have access to the Northrop-credited Red Cross blood bank which will be constantly at their beck and call.

Secondly, Reg Griffin, as a four-month Norcrafter, has been covered by Northrop hospitalization insurance since December 21, 1953, and will be entitled to the increased benefits just announced under that plan (see story, page 1).

At press time, Norcrafters were pleased to hear that the condition of Reg was good, and that he looked forward to an early discharge from the hospital.

Little Diane, however, was still in critical condition. Her sympathizers at Northrop numbered in the thousands.

TROPICAL FISH CLUB TO VIEW HAWAII MOVIES

An exciting event is promised Tropical Fish Club members on Wednesday, January 27, at the NRC Clubhouse when Jack Bitterly, past president of the Los Angeles Aquarium Society, shows color movies of fish taken on his recent Hawaii trip. Bitterly will also show several spectacular shots of a volcano in eruption.

An added attraction will be a film by Kay Ragland, secretary of the Los Angeles Aquarium Society, entitled "Glamour Fish of Hawaii".

ACTIVITIES AT PERSONNEL

FLOWERS and get-well greetings at no cost to Norcrafters off the job because of illness. (Three hundred bouquets were sent out last year.)

Two-Way Radio Speeds Parts For Internal Transportation

MANUFACTURING CONTROL DEVELOPMENT

Movement of critical parts, tools, and other items at Northrop has been almost immeasurably speeded up in the past few weeks with the use of radio communication by Internal Transportation.

The more rapid movement of necessary items has been made possible with small initial cost——the anticipated savings will, in the first year of operation, pay for the cost of installation and maintenance, and save an estimated thirty thousand dollars in addition!

Already the radio system has met the enthusiastic approval of everyone who has had a chance to view its advantages, and to no one is the success of the operation more satisfying than to Norcrafters in Manufacturing Control, who initiated the request for the equipment.

With one of its main responsibilities the expeditious handling of shortages and critical parts, Fabrication and Tool Control departments of Manufacturing Control began figuring ways and means to cut down time required to deliver them.

Thus, Ed Nolan, assistant superintendent of Fab and Tool Control, got together with Bud Swartz, Plant Engineering, and F. J. McLarney, Internal Transportation, to discuss the subject. (Swartz had been investigating possible uses for radio in Manufacturing, as the result of a request from K. P. Bowen, vice-president). This team came up with one answer—the two-way radio—and a short try-out of the system "sold" them.

ADVANTAGES

The operation was installed when it became apparent that expedited delivery of critical items was not the only advantage that would accrue.

The mobile equipment would be better utilized, it was pointed out. (The first three days' figures justified the claim—768 total pick-ups by two trucks! And within a few weeks, one truck was returned to the pool for other use; and it was learned that night shift expediters, who had been using eight cars, now need none!)

The heavy load on telephones would be eased with the use of the radio, for it was not often a matter of just one call to locate a driver who was moving from one department to another.

Largest saving of all, the trio of Norcrafters said, comes from the elimination of the need for hand-carrying items from plant to plant, or department to department. (The indirect man-hour savings alone have proved to be sizeable. Even in the short while the system has been in operation, a saving of 240 indirect man-hours per week is indicated).

CENTRAL DISPATCH

Operated by Internal Transportation Norcrafters, the system uses a central control dispatch station, with an assigned dispatcher and a telephone to receive calls for special service only.

At the central station is a radio transmitter and receiver with the licensed call letter KC 3741. Fourteen pieces of mobile equipment, including banties, panel trucks, pick-up trucks, and fork-lifts, have two-way radios for direct communication with the central station.

When a call for special service comes into the central dispatcher, he immediately relays it —via the radio—to the trucker assigned to the area concerned. The efficiency is proved by the remarks made by several Norcrafters, who claim that they have hardly replaced the receiver after making a request when the trucker has called for the pick up!

The use of radio inter-communication by Manufacturing Control is not new—a little more than a year ago the division installed a radio system in Sheet Metal for use in locating shortage orders in work. That system proved to be the forerunner of a similar network, installed recently, in all Tool Control operations and in the Machine Shop.

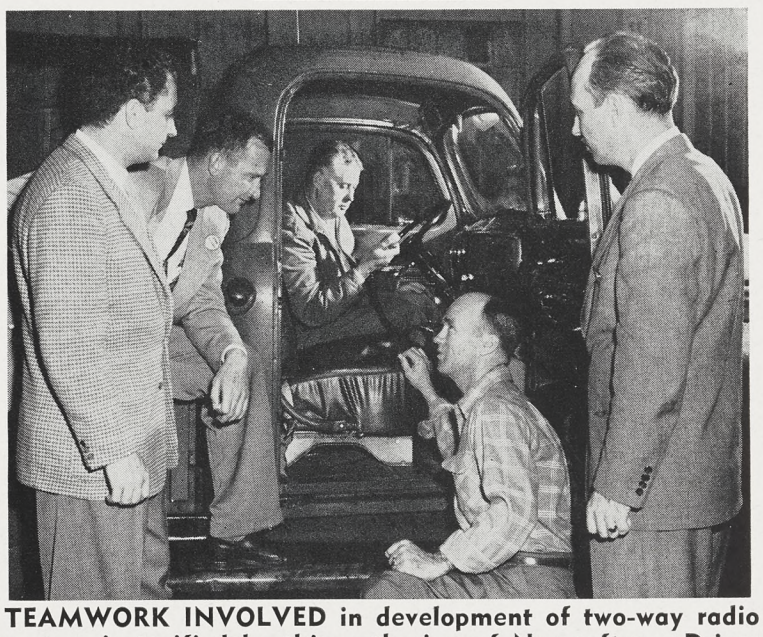
FURTHER PLANS

Plans are afoot in the Plant Engineering division to equip some of the maintenance trucks with two-way radio. These would take advantage of the existing dispatch station in Internal Transportation as a central agency for receipt and transmittal of "hurry-up" messages.

(Two-way radio communication has also been in operation in trucks being used by the Transportation department of the Materiel division for more efficient pick-up and delivery of materials.

The new developments are further examples of conservation-minded Norcrafters' determined efforts to advance the cause of "More Air Force Per Dollar."

The new Manufacturing Control operation is but one phase of a master plan to mechanize the division's operations as much as possible. In addition to the radio control set-up in Internal Transportation, plans under way aim at providing automatic bookkeeping machines for Production Ordering, and a new method of communication between a central control point and all departments of the division for shortage reporting and record purposes.



TEAMWORK INVOLVED in development of two-way radio system is typified by this gathering of Norcrafters. Driver is R. J. Holbert. Discussing radio, front, are Ed Nolan, Fab and Tool Control; Bud Swartz, Plant Engineering; F. J. McLarney, Internal Transportation; D. G. McNeal, Manufacturing Control. System saves time, manpower, equipment.

THE HATCHING POST

November Bride

Plant Security's Helen Stepek changed her name to Mrs. Lynn Poos during the Thanksgiving holiday — 25 November 1953 to be specific. Nuptial vows were taken in the Last Frontier Chapel in Las Vegas, Nevada. Following a week's honeymoon, the couple made their home in Inglewood.

Hawaiian Wedding

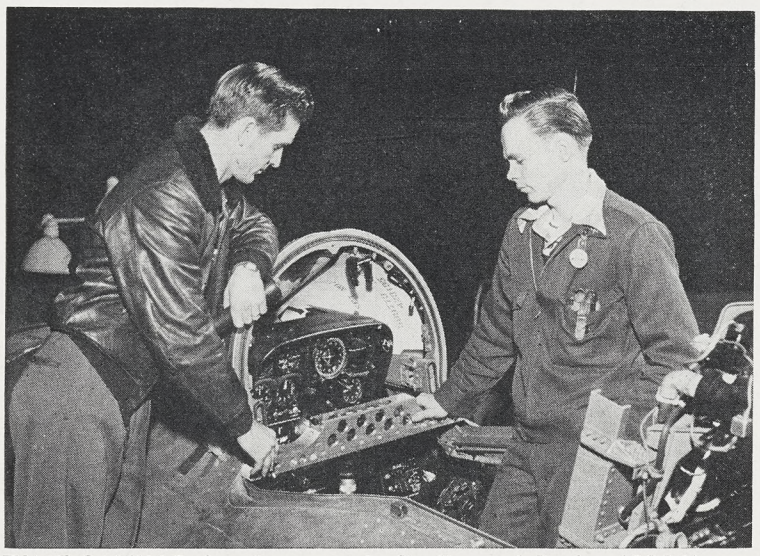
Juanita LeMaster (former night shift telephone operator, Lynwood) was married on Christmas day in Honolulu, Hawaii, to Stanley C. Haynes. Her son, Sgt. Don LeMaster, Air Force, stationed at Puerto Rico, flew to Honolulu for the wedding. Juanita, sister-in-law of the late Pistol Pete LeMaster—well-known to Norcrafters—will make her home in Hawaii.

DISCOUNT TABS AT PA&S FOR GLOBETROTTERS

The Harlem Globetrotters—world famous basketball exhibitionists—are scheduled for two performances at the Pan-Pacific Auditorium on Sunday, January 31, with the first game at 2:00 p.m., the second at 8:00 p.m.

A limited number of special mail order discount coupons is available to Norcrafters at PA&S offices in Plants I and III, entitling the holder to a 50-cent reduction on the purchase of one $3.00, $2.50, or $2.00 ticket. The discount coupon must be mailed (or presented with ticket order) to the Pan-Pacific Auditorium, 7600 Beverly Boulevard, Los Angeles 36.

Herder Idea on Scorpion Check Fixture Saves $$$



TIME-SAVING development in Radio and Radar (5806) was an idea for check fixture to be used in leveling Scorpion during delicate R and R installation procedure. Suggestion was advanced by M. R. "Russ" Herder, right, department Norcrafter, who is shown with leadman, G. D. Hardy, installing fixture. Suggestion Award department is evaluating idea.

DEVELOPMENT of leveling fixture was result of combined efforts of foursome shown: Russ Herder; G. D. Hardy; Don Woodward, assistant foreman, nights; and Byron Knapp, Standard Tooling and Development representative in Plant Three, who devised the fixture for Herder. Several more are now being made as result of good showing of the first one.

Constant efforts of flight line Norcrafters to do a faster, more efficient job in preparing Scorpions for their flights to Ontario are reflected in a development made recently in Radio and Radar Assembly and Installation (5806).

M. R. "Russ" Herder, R and R mechanic in the department, came up with an idea for a foolproof leveling procedure for lining up the aircraft horizontally, preparatory to installing and checking side-slip stabilizers.

Given a hand by Byron Knapp, Standard Tooling and Development Norcrafter, Russ came up with a check fixture which has been in use for several weeks now, and which, it is claimed, will save several man-hours per ship in the leveling operation.

The former method of leveling the airplane utilized handmade protractors and leveling equipment, and the operation required constant checking. Developers of the new check fixture point out that the new method lines up the Scorpions within a matter of minutes . . . accurately.

There are possible future uses for the fixture, such as installation of flight computer, accelerometer, and other equipment; and Knapp points out that its light weight and portability make it a fine field tool. It is engineered to fit into index holes on the windshield for stability.

Two are now being made for use at Hawthorne and at Ontario, and a possible third will be ordered for Muroc use.

"I still say we should try GMW."

The STORK CLUB

Crow Heir

All the happy activity around the Crow menage these days started on 30 November 1953, when little Jack Leonard was born. Jackie, new son of J. B. Crow (Plaster Shop) and wife Lola Jean, arrived at Gardena Hospital at 5:53 p.m. He weighed 7 pounds 8 ounces and stood 20 inches tall. Jack has two sisters — Anita, age 9, and Andrea, age 8.

Tiny Teague

Dock Ray Teague made an early morning entrance into the world last 24 November 1953. He arrived at the Hawthorne Community Hospital at 4:00 a.m. Father Otis "Tex" Teague (Bench Router & Drill Press Assem.) and mother Doris welcomed all 8 pounds 6 ounces of him. Fourth happy member of the family is sister Nanette, age 12.

King David

King around the Shelton household these days is newly arrived David Lewis. He was happily welcomed by father George E. Shelton (Test Fixture Engineering), mother Dolores, and 2-year-old brother Richard Edward. Records of Hawthorne Hospital show David arriving at 9:50 p.m. on 10 December 1953, weighing 7 pounds 12 ounces.

Model Child

Adam Slusarz (Advance Production Control) and wife Dolores (Production Engineering) proudly announce the birth of daughter Elizabeth on 31 December 1953 at Torrance Memorial Hospital. Adam, night shift Camera Club comish, will now have two little girls for lens subjects —the Slusarz' have another daughter, Karen, age 1 year. Elizabeth weighed 7 pounds 12 ounces at birth.

Anniversary Present

By arriving on 15 November 1953, Gary Craig Kessler is here in plenty of time to help his father Bernard Kessler (Lynwood-Surplus Stores) and mother Mildred celebrate their tenth wedding anniversary on 7 February 1954. Other celebrators will be Gary's sisters Robin Susan, age 8, and Honey April, age 4. Cedars of Lebanon Hospital at 2 p.m. was place and time of Gary's birth.

Neophyte Nederostek

Little Richard Michael Nederostek believes in early arrivals, so he chose 4:38 a.m. on 11 January 1954 to make his appearance at Brevard Hospital. Father Emil M. Nederostek (Flight Test Data Analysis-Florida) and mother Mary were happy to welcome their new 5-pound 3-ounce son at any hour. Echoing their happiness was Richard's big brother James Michael, age 3.

Proud Parents

Jim Olmstead (Lab Test) and wife Barbara are the proud parents of Scott David, born 3 December 1953 in Torrance Municipal Hospital. Scott weighed 8 pounds 7 ounces when he arrived at 2:30 a.m. Sister Claudia Ann, age 17 months, was on hand to welcome him home.

Sugar 'N Spice

Lucky little Kathryn Elizabeth Williams arrived in the Palmdale Hospital, Palmdale, on 16 December 1953 with three big brothers to greet her. Namely: Ken, age 5; Rick, age 4; and Larry, age 2. Father Kenneth K. Williams (Plant Protection-Edwards AF Base) and mother Pauline happily welcomed new 7 pound 7 ounce daughter.

Future Norcrafter

Raymond G. Eckles (Fuselage Sew-up) and wife Marie, are proud parents of new son, Roy Duane. Little Roy, a sturdy 7 pounds 15½ ounces, was born at 10:27 a.m. on 21 November 1953 in the Good Samaritan Hospital. Happy at his arrival are brother Lynn Dean, age 3; grandfather Sam Noday (Maintenance) and uncle Ralph Noday (Plastic Shop).

Cocoa Celebration

Two happy people greeted their first-born when she arrived at 9:30 a.m. last 13 December 1953. Wuesthoff Memorial Hospital, Cocoa, Florida, was scene of the event and participants included father, Robert L. Burr (Guidance & Electronics-Florida), mother Marjorie, and 7 pound 3 ounce April Lee Burr, newcomer.

Mister Roberts

Steven Allen Roberts, newborn son of Ray Roberts (Test Fixture Lab) and wife Ora, weighed a hearty 8 pounds 12 ounces when he arrived on 9 December 1953. St. Francis Hospital personnel checked him in at 9:02 a.m. Steve has a big sister Irene, age 4.

First Nagell

Geri Nagell (Personnel) and Edward Nagell (formerly Electro-Mechanical Design) are the proud parents of first-born Jeffrey Kent. Jeffrey arrived at 1:50 p.m. on 19 December 1953. Centinela Hospital authorities listed his weight as 9 pounds 6 ounces.

Kathy's Brother

Kathy Lynn Roberson, age 1, has a new brother who arrived on 10 January 1954 at 5 a.m. Kathy's father, Arthur J. Roberson (Maintenance Department-Florida), and mother Betty named the new arrival Dale. The little boy, a hardy 6-pounder, was born at home.

Night Shift Camera Club Plans Photo Field Trip

The NRC night shift Camera Club is shifting into high gear in its activities, a joint announcement from Eugene Beck, secretary, and Adam Slusarz, commissioner, advises.

The February 6 meeting in the NRC Clubhouse Annex will be devoted largely to discussion of plans for a field trip on February 13-14. Suggestions have already been advanced for a trip to the mountains, with transportation arrangements being provided for members without cars.

In addition to the discussion of the field trip, several members will make reports on new trends in the photography field.

New 1954 chairmen in charge of various activities are: R. L. Carberry (5515), black and white; John M. Slack (5232), facilities; Frank E. Tate (7210), color; and Robert Skipper (5920), sergeant-at-arms.

The new chairmen and officers are currently encouraging participation in the club by Norcrafters who do not own "professional" equipment. They state that the meetings of the group can be of benefit to all amateur cameramen, regardless of the type of equipment they own.

PLANT ONE, TWO CALLING DONORS FOR BLOOD BANK

Red Cross Blood Bank mobile units will be stationed in the NRC Clubhouse on Wednesday, February 3, to receive blood donations from Northrop personnel in Plants One and Two. Transportation for donors will be furnished by PA&S office.

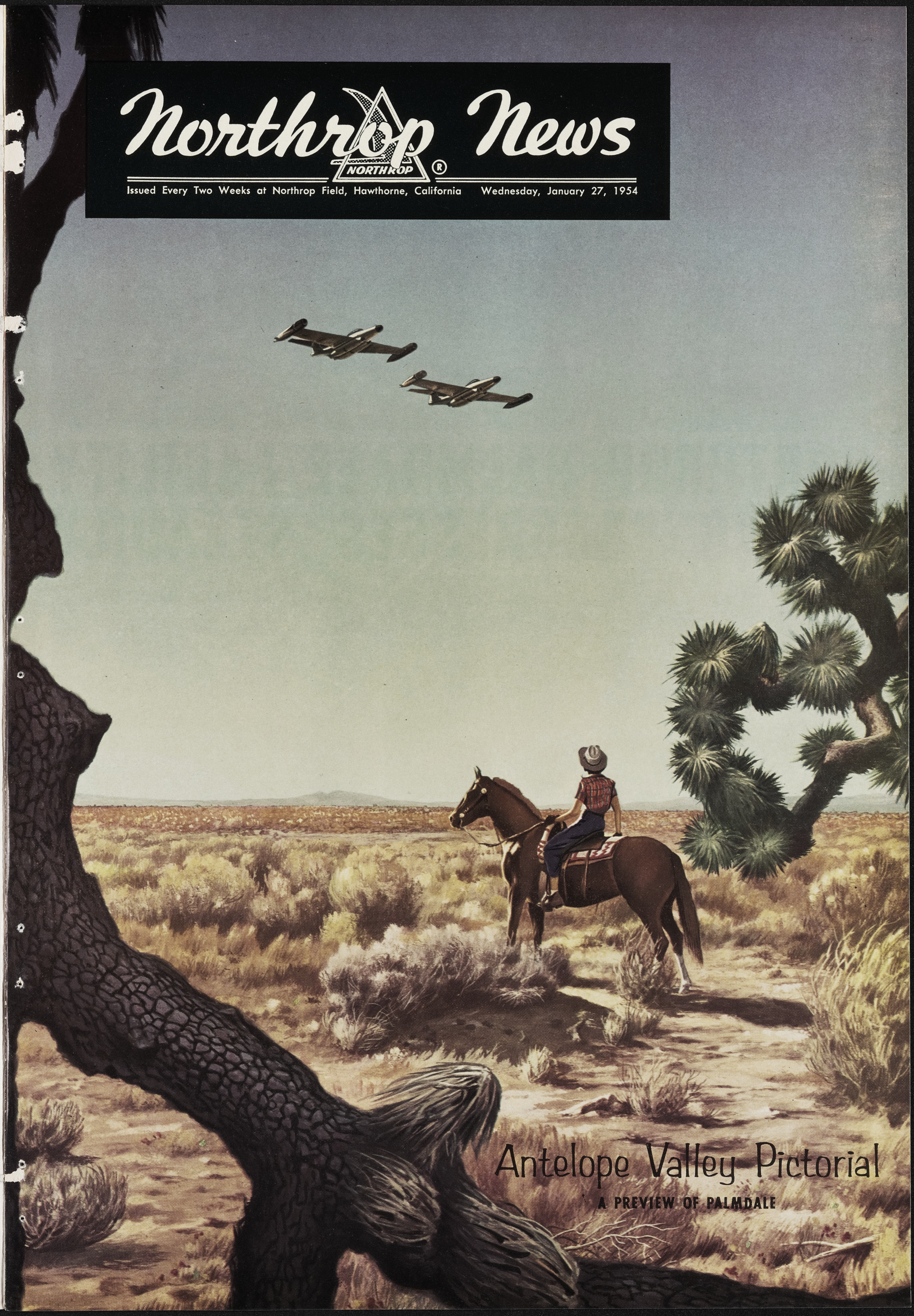
Personnel interested in contributing to Northrop's 600-pint quota may contact their department clerks for donor cards or call the Personnel Activities and Services office, Ext. 2784.

Plastic Shop Safety

SAFETY-CONSCIOUS Plastic Shop Norcrafters have developed colorful safety posters shown for use throughout department. From left: Bud Atkins, assistant foreman, who suggests the themes; William Copley, who developed earlier drawings for campaign; Wendell Ehret, who drew illustrations shown; and Tom Cunningham, Safety department representative. Covered with scrap sheets of clear plastic, posters are eye-catching, brightly-colored safety reminders.

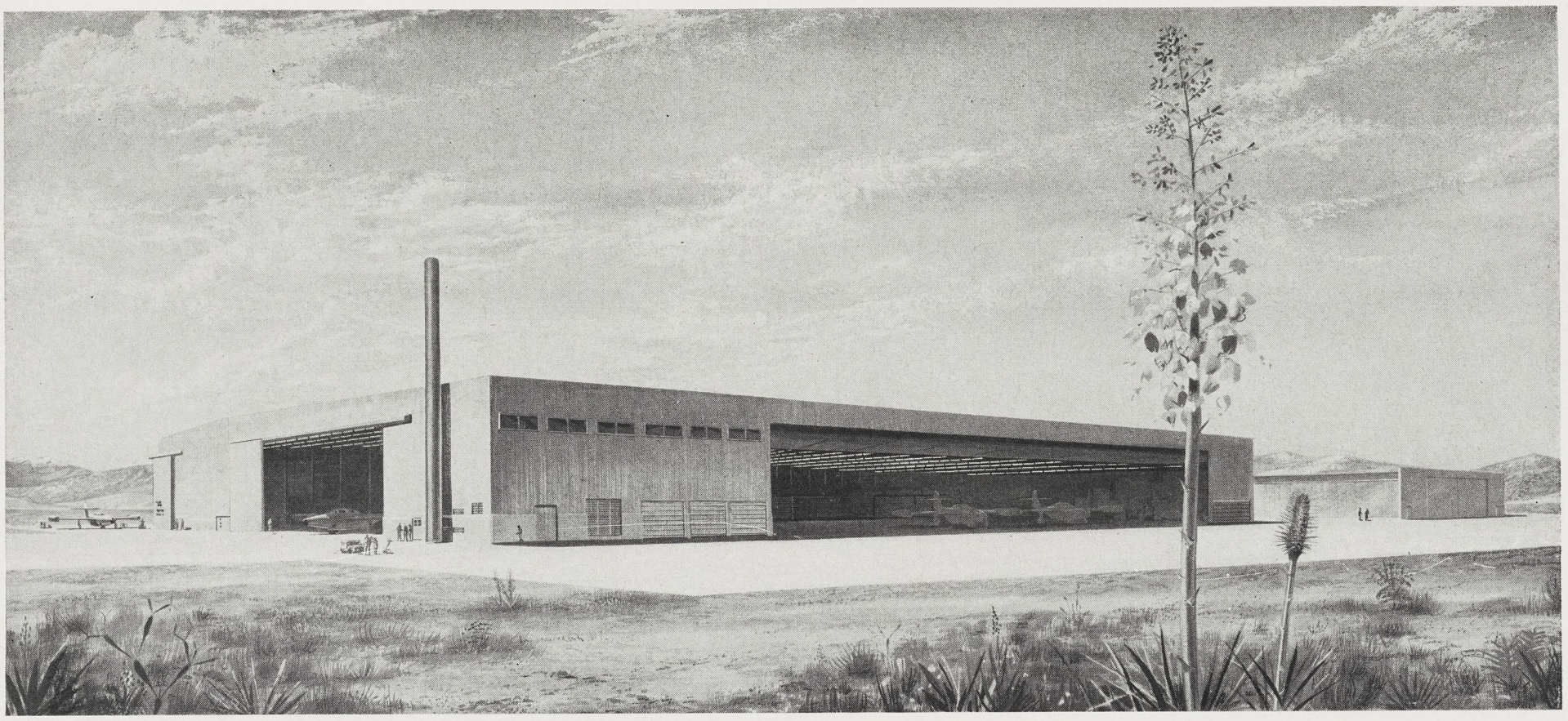
Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, January 27, 1954

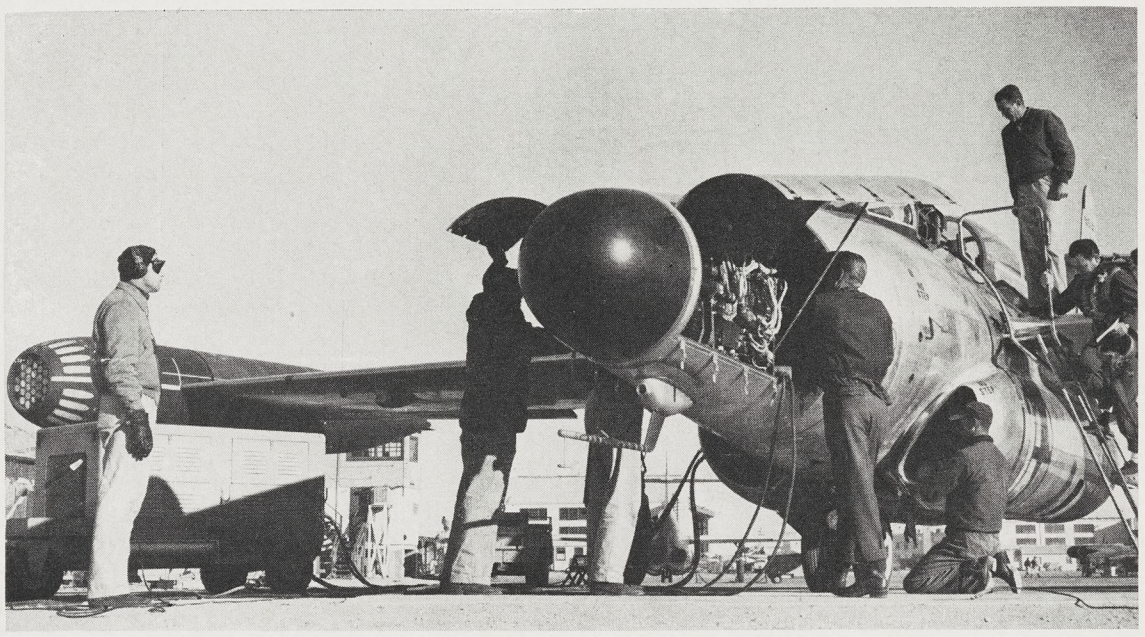


Antelope Valley Pictorial

A PREVIEW OF PALMDALE



NORTHROP-PALMDALE FACILITY HIRING PROGRESSES STEADILY



SCENES LIKE THIS, taken at Muroc recently, will soon be commonplace at new Palmdale facility, when Scorpions go through production test paces prior to delivery to Air Force. Crew swarms over test airplane shortly after its return from test flight. Fom left: Walt Watker, Chuck Wagner, Joe Niessen, Gene Young, Gene Bridge. Standing on wing is Hardy Jones; stepping down is Pilot Bill Pruitt. Palmdale is already called "Jet Center".

Air Industry Move Will Boost Business . . . Create Many New Jobs in Valley

Many new skills will be brought to the Antelope Valley by the influx of Norcrafters and other aircraft company personnel, and their coming to the valley will increase job opportunities in many other fields, according to statistics.

It is estimated that one service worker is required for every five persons in any given community. Northrop presently anticipates eventual employment of approximately 1000 persons at the Palmdale test center. Approximately seven hundred service job opportunities will be then generated in the Antelope Valley area as a result of the influx of new Norcrafters (based on a figure of 3.6 persons in each family, or a total of 3600 persons).

The same figures applied to other plants now located in the valley and those who plan to locate there would bring the new job figure, by the end of this year, up to several thousands, exclusive of aircraft workers.

Service workers include bank clerks, sales personnel, carpenters, plumbers, doctors, nurses, and a score of other classifications. Cars must be serviced, homes maintained, and a host of other services rendered.

The Northrop folk who work as radar technicians, radio specialists, field and service experts, precision inspectors, will need tools of their trade. They will require automobiles for transportation, homes to live in, and other necessities.

Those who buy small ranches will be in need of agricultural tools, poultry equipment, even tractors. Sales of seed for gardens, feed for chickens, livestock, and pets, will have a beneficial effect on the economy of the valley.

Thus it is that merchants and other businessmen will welcome the impact of aircraft payrolls in the communities of the Antelope Valley. New businesses will be started. Opportunities for success will be presented to both the new residents and old. Antelope Valley will rapidly take its place among the large industrial aircraft centers in the United States.

ANTELOPE VALLEY TEST CENTER MARKS MILITARY MILESTONE

Long and careful planning of the past two years will culminate early in April of this year when the first sizable contingent of Northrop folk will be welcomed to the new Northrop-Palmdale facility, according to Company officials.

Near-completion of the various buildings has started a training program of Norcrafters in both Ontario and Hawthorne for those whose skills qualify them to transfer to the new facility. Applications are also being taken from individuals now living in the Palmdale area for positions there, it is announced by Tom McCracken, recently appointed base administrator.

The huge hangar, which will be used by about 1000 Norcrafters at peak employment, measures 560 by 348 feet. It is a completely modern air-conditioned building which promises the utmost in working conditions for those who accept jobs at the new facility.

In addition to the large hangar a smaller building, 300 by 75 feet, will house the painting and stripping facility for the production flight test groups.

Here the F-89D and other airplanes will be stripped of the drab protective coating applied at Hawthorne, repainted and decorated with the more than 600 insignia, decals, and stencils which go on the completed airplane on delivery.

The main building will include three stories of office space and an equally large radar bench test section, according to present plans.

Total cost of the buildings will be in excess of $2,500,000 by the time the project is completed, Company officials state.

Lockheed and North American Aviation will have similar facilities at Palmdale. Total value of the three plants there will be an estimated $7,400,000.

The joint venture of the three aircraft companies is under United States Air Force sponsorship, and marks a milestone in the military history of the United States. For the first time large competing corporations have joined hands in a mutual project to develop a common flight area. This saves the taxpayers a great deal of money —separate runways and other flight facilities need not be furnished separately by each of the manufacturers.

Over-all plans for the new airport, which is now closed to commercial air traffic, show a remarkable degree of flexibility in design. The entire area can be expanded to war footing.

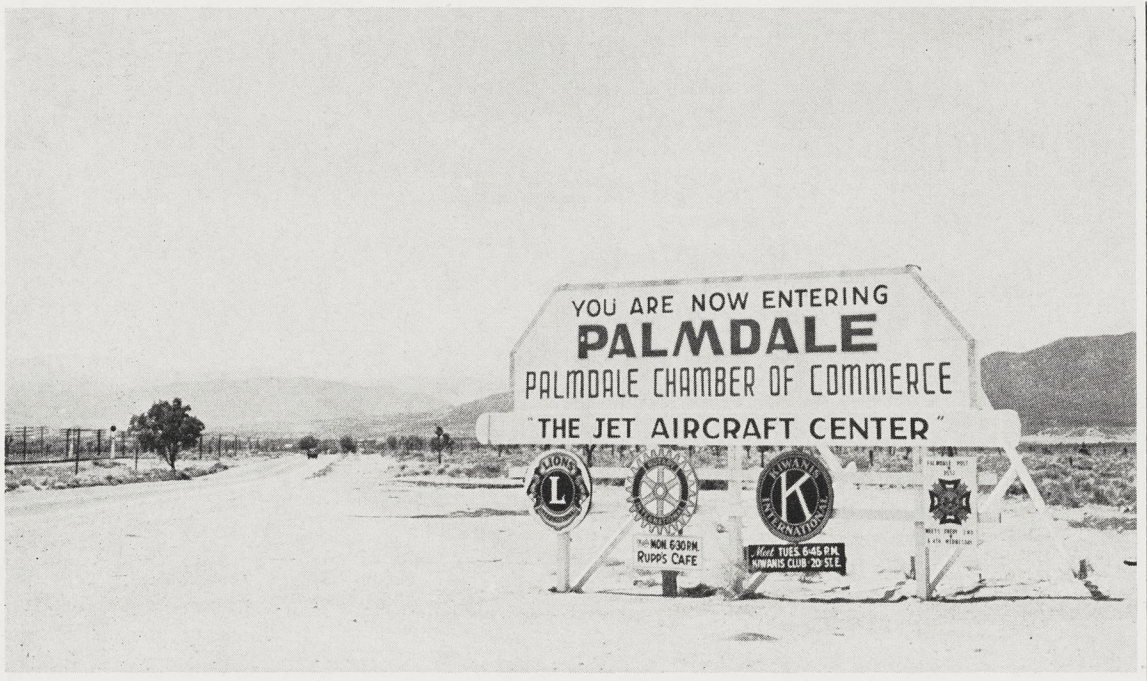
Marking the importance of the Palmdale joint facility was the recent announcement to the public of the more intimate details of the Scorpion F-89D.

This airplane, which will be production tested over the Antelope Valley when the Palmdale base is completed, was revealed as the most heavily armed operational fighter known to exist in the world.

Of particular interest is the fact that the airplane is designed for the protection of the continental United States. It can seek out its enemies in darkest night and go in for the kill packing the lethal punch of 104 air-to-air rockets which can criss-cross a fire pattern sufficient to saturate an area as large as a football gridiron.

Approximately one-half of the workers on the construction gangs building the new Northrop plant are residents of the Antelope Valley and the balance commute to their jobs from San Fernando Valley and Los Angeles.

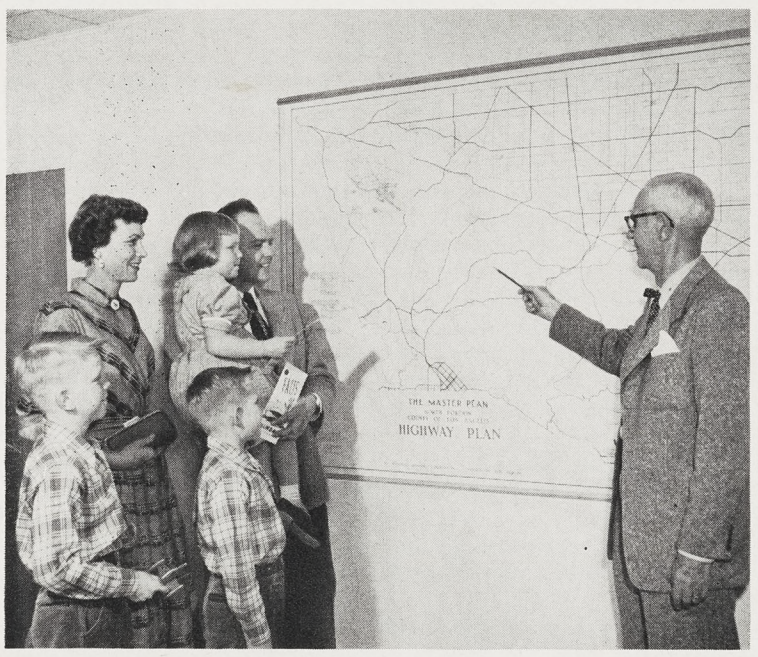
"JET CENTER" HAS BRIGHT FUTURE



UNCROWDED highways lead to Palmdale. Excellent roads, paved streets prevail in valley.

Civic Groups Aid Valley's Development

Civic groups and fraternal organizations in Palmdale and surrounding areas take a lively interest in both the serious problems of the valley and in festive annual programs which are famous throughout the United States.



ADVICE TO NEWCOMERS is only one of many services rendered by the active Palmdale Chamber of Commerce. Above, Al Study, Chamber manager, explains zoning problem to Straud McBride jr., his wife "Jo", twin sons Eldon and Sheldon, and daughter "Terry". Chamber distributes pamphlets outlining facts regarding the valley, publishes an up-to-date list of rental properties situated in Palmdale and nearby towns. Antelope Valley is 60 miles from Los Angeles.

Serious example was the recent drive for a bond issue to build a new hospital in the Antelope Valley which was spearheaded by PTA and other organizations. An initial objective was to raise funds to buy the hospital site, a necessary preliminary to the bond issue vote. The fund was raised and the bond issue passed with flying colors.

Active Chambers of Commerce in Palmdale, Lancaster, and Quartz Hill give free information to newcomers and publish lists of rental properties for the benefit of those in search of living quarters.

Sponsored by all groups are the nationally publicized Palmdale Roundup Days, which attracts as many as 1000 horsemen; the Antelope Valley Fair and Alfalfa Festival; the Palmdale Lilac Festival; and Quartz Hill's Almond Festival.

Fraternal and service groups in the valley include: Masons; Elks; Kiwanis; Rotary; Lions; Senior and Junior Women's Clubs; PTA; Coordinating Councils; veterans' organizations; and Chambers of Commerce. There are 34 churches in the valley. — (See photo, page 6.)

MULTI $$ MILLIONS INVESTMENTS REVEALED BY BUILDING PERMITS

Perhaps the last great mass development of formerly agricultural land, such as swept the San Fernando Valley 20 years ago, is now under way in the Palmdale-Lancaster area.

The people of the Antelope Valley are not tearing up the grass-roots of their original agricultural heritage, however, but are striking a happy medium of development wherein the small farm will have its place, the larger farm acreages will remain on the outskirts of the new developments, and purely urban housing projects will grow as needed.

Growth rate of Palmdale as a typical Antelope Valley illustration shows an increase of 80.3% during the past three years! Lancaster has also grown by leaps and bounds with an increase of 42%.

Total building permits for Palmdale area in the first seven months of 1953 amount to $3,025,648. Total for 1952 was $4,087,000 and 1951 permits were $3,479,855.

It all began when the Los Angeles County Board of Supervisors turned over the Palmdale Airport to the United States Air Force to lay the foundation for "Jetville, U.S.A." which, according to authorities, is destined to become the world's largest center for jet aviation.

The Board of Supervisors and the Air Force have planned well for the future of the jet center. A two-mile buffer zone has been created around the entire 6000-acre airport for use as heavy agricultural land only — thus preventing the eventual subdivision of this land for residential purposes, with attendant air field crowding such as has taken place in the Los Angeles metropolitan area.

County officials estimate that the planned expansion by major aircraft companies, and smaller concerns who will be attracted to the area, will draw a "minimum" of 35,000 persons to Antelope Valley by 1955.

Not only does the industrial development attract individuals to the area, but the many opportunities offered by ranch life are having an effect on the influx of population. Many persons can enjoy life on a small ranch in the Antelope Valley and hold an industrial job as well.

Although the land is in a dry, desert-like area, water problems are not acute. The average water table, which is replenished each year from the melting snows on nearby Tehachapi and other mountain ranges, lies at approximately 200 feet. Some wells, however, go much deeper, ranging downward from 300 to 1350 feet below the valley floor.

Newcomers buying land in the valley will find that conscientious realtors in the area will furnish an engineer's report on the existing water table in their immediate vicinity, as well as reports on wells supplying tract lands.

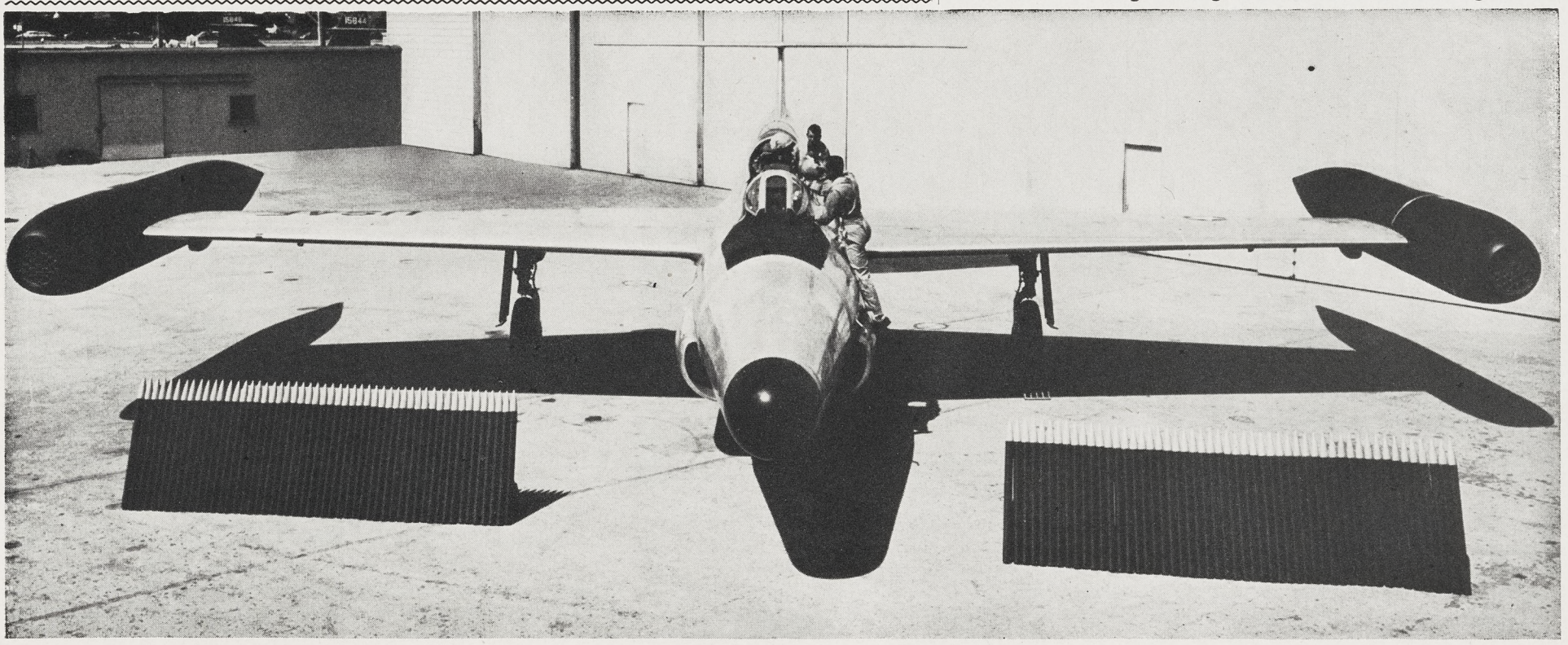
The Palmdale Irrigation District's present water supply is designed for an extreme growth of 12,500 more people and does not include many hundreds of individual wells on private property and a score on small farm tracts.

Twenty-three per cent of all subdivision maps filed in 1952 with the County Planning Commission were from the Antelope Valley and represented 50% of all acreage subdivided in Los Angeles County.

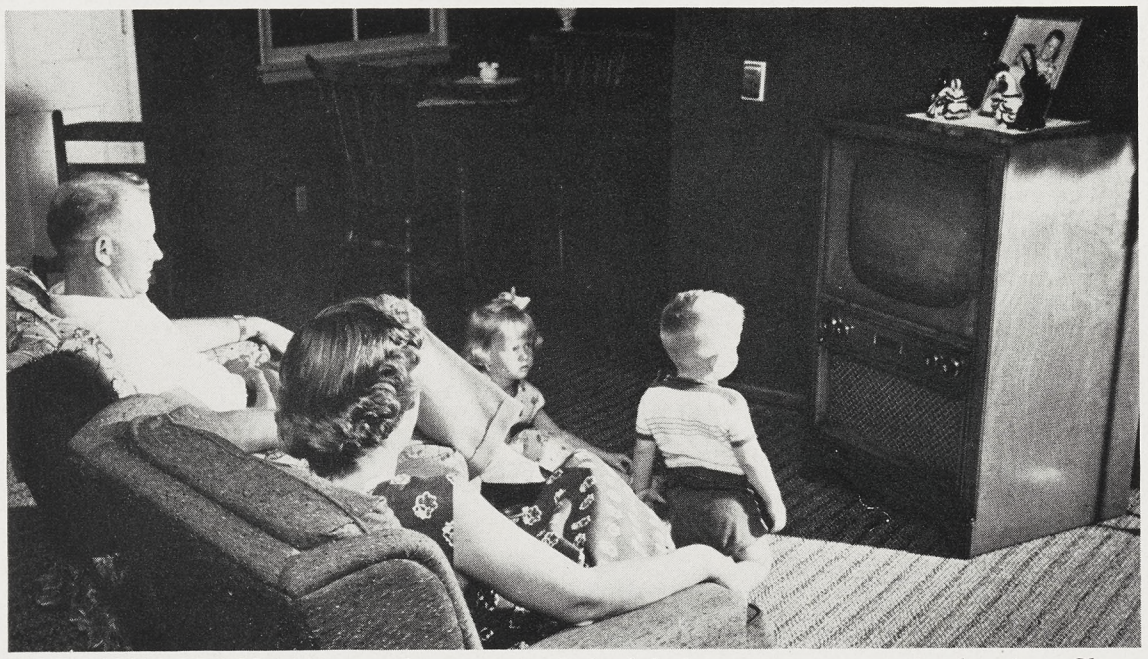
A three and a half mile trunk sewer system, including treatment plant, has recently been completed in Palmdale at a cost of $224,000. Federal aid was obtained on this project.

These many developments point to the permanency of the large developments in the valley, where individuals may find a half-way point between city living and the many advantages of country life in an ideal climate 2600 feet above sea level.

A FENCE OF FIRE around the continental United States can be built with rockets such as below, when fired from the Northrop F-89D Scorpion. Huge streamlined tip pods pack a "Sunday punch" of 104 high-explosive air-to-air rockets. Field of fire is large enough to saturate a football gridiron.



TRACT HOME CONSTRUCTION ZOOMS



TELEVISION PROGRAMS are the same in Palmdale-Lancaster area as in the city. Channels 2, 4, 5, 7, 9, 11 and 13 are clearly viewed. In some areas, close to foothills, taller antennae are necessary. Interested viewers above are Bob Reeves, Edwards Norcrafter, his wife "Jerry", son Mark and daughter Rondi. The family owns modern tract home in Palmdale. Neat, new homes in Antelope Valley vary in style from "Cape Cod" dwellings to modern "lean-to" roof designs. Loans available are identical to those prevailing in greater Los Angeles, and cost of homes is roughly the same as that of homes in city.

READING TO THE CHILDREN occupies father Reeves, while mother crochets. Entertainments outside the home include dancing, movies, card parties with neighbors, and participation in the many valley social and public affairs. Decor of the Reeves home is early American. General interior of other homes in the vicinity favors this and modern decor.

SELECTING THE HOME SITE is an important step in building. Sites are often chosen to include the native desert Joshua trees in patio or garden. Small ranches of one to five acres are popular with those who desire ranch life with city conveniences. These small farms also provide additional income to owners and provide home grown beef or pork. Utilities available in area include water, electricity, and natural or butane gas. The Valley real estate brokers will furnish engineer's report of existing water table in vicinity of lot which prospect wants to buy, or report on wells that supply tract being looked at.

FHA RULING AND PRIVATE CAPITAL SPUR VALLEY BUILDING PLANS

Newcomers to the Antelope Valley will find that almost any type of housing available in Los Angeles is being duplicated in the Palmdale-Lancaster vicinity and that prices are on the same level in both communities.

Spur to Valley building was the recent announcement that 500 to 750 new homes will be financed in Antelope Valley in 1954 by Federal Housing Administration.

It was also learned 1500 tract homes will be built by private money in Lancaster, and 1102 in Palmdale during the year, according to commitments already made.

Houses will range in price from $7995 for two and three bedroom homes to $13,500 for three and four bedroom homes.

Homes of the "you finish" type are available for erection on the individual's lot at a price range between $3,600 and $4,200.

Under a recently announced new zoning plan, 6746 acres of land have been set aside for single-family residential expansion in this recently designated "Active Defense Area" of Los Angeles County.

Acreage prices will run from $50 to $1500 per acre depending on location and availability of water. Low cost land, due to the water problem, is usually not the bargain it may at first appear, according to experts in this field. Since the cost of a proper well may run from $3000 to $5000, the buyer of such land may find that he has, in the long run, paid the same price as the cost of improved land.

The Regional Planning Commission of Los Angeles County has set high requirements for the subdivision of lands in the valley area to rule out use of sub-standard land.

FHA loans are available under Title 9 and Title 2. Title 9 is especially planned for defense workers and allows 80% financing on homes for those who qualify. Thus, a $10,000 home may be acquired on a "move in" basis, with a $1000 down payment at interest charges of 4¾%. But balance on "pick up" payments must be paid out within a definite period, usually within six months — this in addition to the regular monthly payments. Title 2 is the conventional type of FHA loan at the same rate of interest but requiring a down payment of 15%.

Other types of loans require a much smaller down payment but interest charges are correspondingly higher. A $500 down payment is sufficient on many types of homes on a 60- by 130-foot city lot. Interest charges average 6%.

Most of the "you finish" home plans require that the buyer own or hold a deed to the land. These houses are unfinished inside and it is necessary for the buyer to do his finish carpentry, plumbing, and electrical work. Interest on these plans can run as high as 7%.

Some GI houses are now available in the North Antelope Valley and loans direct to the GI may be used in buying a home there. Individuals who now have government loans may retain and transfer the loan to the valley area after selling their present real property owned in other localities.

Many of the workers now stationed at the various aircraft facilities build their own homes on land either owned outright or being purchased on contract or other plan. Loans are available for this type of plan and construction is carried out weekends and after working hours.

Small farm tracts, from one to five acres, may be purchased with down payment of as little as $100 up to $500. This land will average around $1200 per acre with interest usually at 5½ to 6%.

Utilities include water, natural and butane gas, and electricity. Telephones are as readily available as in the metropolitan area.

Cost of butane gas is slightly higher than in Los Angeles. Electricity is also higher but all-electric homes entitle the user to a commercial rate which brings the price down to city averages.

The dry air of the valley makes air conditioning desirable and most new homes have built-in units for both heating and cooling.

SOME BUILD THEIR OWN homes in valley. Weekend builder above is Ralph Hopkins, Statistical Quality Control Norcrafter, who, with wife Doris, is erecting home and chicken barns on three-acre plot near Palmdale in spare time.

MANY ALMOND ORCHARDS thrive in the valley. Other orchards produce pears, peaches, and apricots. Residents obtain fruit by the lug direct from ranches during fruit season, and home canning is a regular family occupation in the summertime.

Opportunities in Valley For Small Ranch Owners

Small ranch owners in the Antelope Valley will generally cite several advantages — not usually available in urban life —which will materially help the family budget.

Raising of meat chickens is the largest agricultural enterprise in the valley, last year reaching an all-time high of $18,000,000. This figure topped the $15,000,000 total for alfalfa, formerly "King of Crops" in the valley.

Commercial raising of chickens, however, takes a considerable investment, usually somewhat beyond the budget of the small farm owner. It is estimated that housing equipment for commercially raised birds costs a dollar a square foot and that each bird requires 1.13 square feet of space. Thus, a 6000-bird plant, the minimum recommended for a commercial enterprise, would cost nearly $7000.

However, the raising of smaller quantities of chickens not only increases the income of the small owner but also provides a welcome addition to the family freezer.

In addition to meat birds, egg production, raising of turkeys, ducks, and geese and many other types of livestock is a feature of the everyday life of small farm owners.

Zoning ordinances in the valley allow the raising of two or three pigs and an equal number of calves. Goats may also be raised, and many families in the area, not wishing to keep a cow, have one or more milk goats instead. A first-class milk goat will give as much as two gallons of milk per day, more than enough for the average family.

Average figures on the home raising of a pig are as follows: The animal raised entirely on commercial feed to a weight of 250 pounds is butchered by a professional butcher, and the bacon and hams are smoked at a commercial smokehouse specializing in this type of service. The meat is of good quality without too much fat, due to the balanced feeding program. Average cost of the meat, including all services, runs between 17 and 19 cents a pound.

Steers raised on the small farm cost approximately the same, since enough graze can be supplied on a three- to five-acre ranch to supplement purchased feed.

Beyond the raising of food animals most youngsters in the valley whose parents own a ranch of this type are able to keep a horse, a pony, or a burro. Many teen-age and younger children belong to the valley's 4-H clubs and raise anything from pigeons to steers under this program. Keeping rabbits is a popular hobby of the younger children.

All types of deciduous fruits thrive in the valley and most small farms now established have a dozen or more varieties of fruits in season. Home canning is a regular occupation for housewives of the area whether or not they have an orchard of their own. Large pear orchards and apricot groves sell their produce direct to the public at a better than wholesale price.

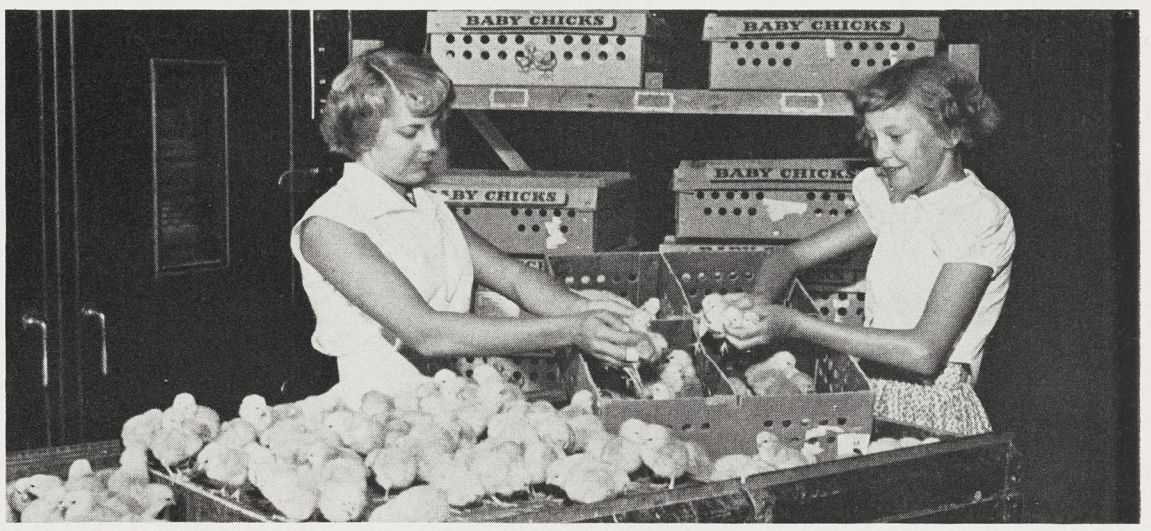
Many types of berry vines thrive in the Palmdale-Lancaster vicinity.

Corn, if protected from winds in the early months of the year, grows well. As a rule gardens are planted in the lee of chicken barns or other outbuildings as a protection against the brisk winds of May and June.

Excellent crops of tomatoes are grown in the valley, a few plants being more than enough to supply the average family both as a fresh table delicacy and for canning.

Root crops and potatoes thrive in the soft sandy soil which, incidentally, is easily cultivated. Watermelons and other vine crops, such as squash, are easily grown.

So it is that families moving to the valley will be afforded a much richer life if they are agriculturally inclined.



NEWLY HATCHED CHICKS are shipped immediately to growers of the area. Pictured above are Nancy Wilson, left, and sister Harriet, packing the "cheepers" at Wilson's Topper Poultry establishment near Palmdale. Many hatcheries furnish chicks and financing to ranchers in the valley. First poultry co-operative plan was pioneered 16 years ago.

READY FOR MARKET, these plump "Caponettes" are being fed by Mrs. Carl Pierson, Palmdale housewife, who attends flock of 3500 birds while husband is at work, as do many other wives in Antelope Valley. This flock won $50 prize for birds having greatest feed conversion average. Birds weighed more — ate less than other flocks.

BOTH SHEEP AND CATTLE are raised in commercial flocks and herds. Pastoral scene at right, taken midway between Palmdale and Lancaster, is a typical one. Many goats are raised in the valley, as are hundreds of thousands of turkeys. Cut-over alfalfa lands and fields planted to meadow grass provide ample grazing for the commercial herds.

BOYS AND DOGS are always fascinated by fire engines. Above, friendly Lancaster fireman-engineer shows "smoke eater's" equipment to neighborhood lads. From left, "Spotty", station Dalmatian; Michael Morton; Bobby Rudesill; Frederick Morton, jr.; John H. Yager. L. A. County firemen serve area, since it is unincorporated territory.

YOUTHFUL NIMRODS in this picture compare results of a morning's hunting trip. Game is plentiful in Antelope Valley. Game birds, deer, cottontail and jack-rabbits abound.

FARMER'S DAUGHTER Sheila Kelly is pictured with goat she is raising as a 4-H project. She is a member of the Quartz Hill 4-H Club. Her parents raise blue-ribbon Nubians.

Area Noted For Good Citizenship

Norcrafters hiring in at the new Palmdale facility will find they are entering a community that is exceptional for its record of good citizenship.

The area, being unincorporated, comes under the jurisdiction of one of the most efficient Sheriff's Departments in the United States—that of Los Angeles County — supervised by Sheriff Eugene Biscailuz, long known to Norcrafters as the first gentleman to turn a spade of earth at the beginning of Plant One back in 1939.

As a part of the county-wide Los Angeles County Sheriff's Office, the Palmdale-Lancaster area receives all the benefits of a small police agency while retaining the advantages of the larger metropolitan police agency.

Queried on good citizenship statistics in the Antelope Valley, Sheriff Biscailuz replied, "Have you ever lived in a town where you knew all the fellows on the police force? When you meet them on the street you call them by their first names and you can ask them to make periodic checks on your house if you are going to be gone awhile. It's a locality where you can raise your kids secure in the knowledge that they won't get in trouble because of 'bad gang' companions."

The area Sheriff's office, located less than four miles from the Northrop plant, can (via radio) call on the facilities of the entire Los Angeles Sheriff's department at a moment's notice.

Trouble of big city variety is practically non-existent in the Valley and society misfits apparently shun the area. This is attributed in some measure to the deputies' close acquaintanceship with the people in the town and to the modern detective bureau which works out of the downtown Los Angeles office.

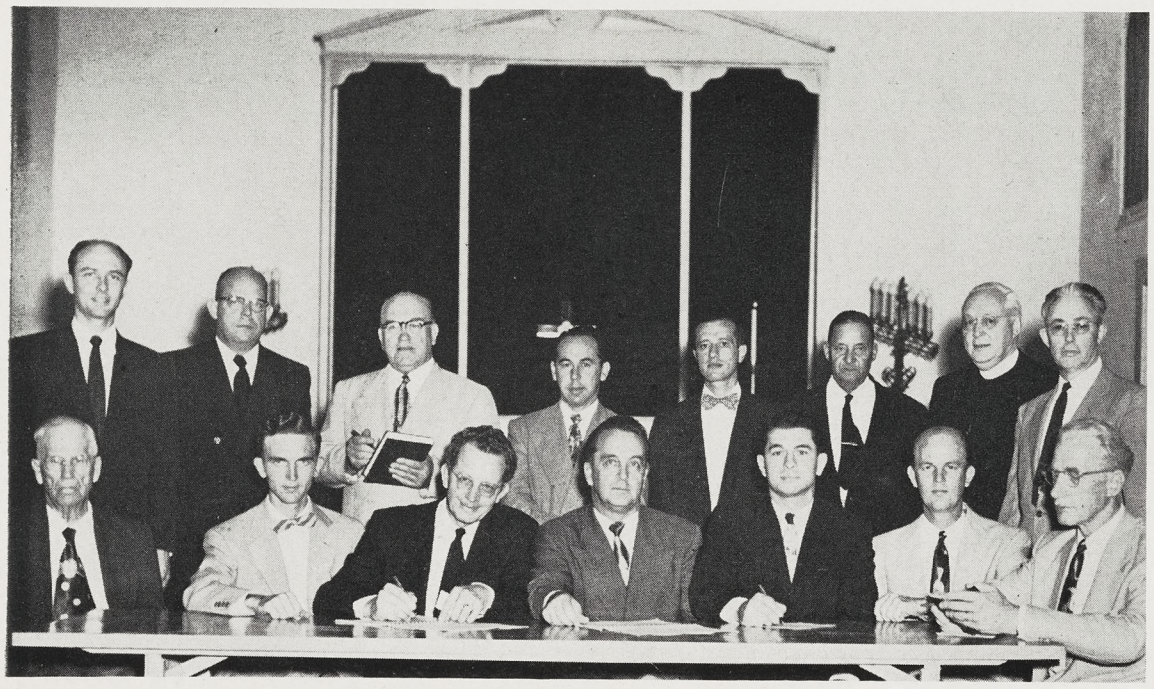
As before indicated by Sheriff Biscailuz, Antelope Valley is truly a youngsters' haven.

As one of the most noted influences for good citizenship in the Valley, the 4-H Club should be mentioned, with its attendant program that satisfies the urge of young people to grow things from the soil and to foster and care for livestock pets. The area has collected more than its share of championships in this category and will in the future certainly collect more.

HOMEWARD BOUND from Courson Park Playground, this little family group is escorted across street by friendly officer, Deputy Sheriff Charles D. Holman, one of men who cover Palmdale area in police car. Twenty-four hour patrols throughout the Antelope Valley keep crime at low ebb.

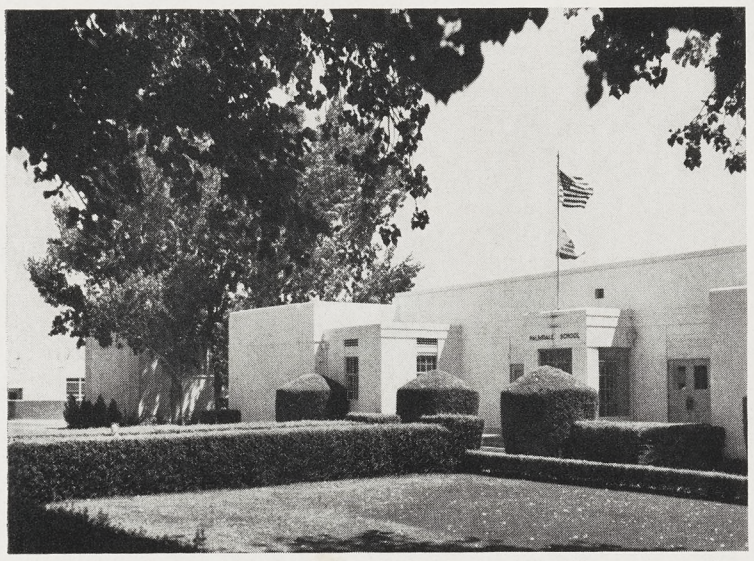
FUN IN THE SNOW is only 45 minutes away from warm sunshine of the valley. Youngsters—and grownups as well—enjoy winter sports easily at hand on nearby mountainsides.
(CREDIT LOS ANGELES MIRROR PHOTO)

SWIMMING LESSONS are free at pools in both Palmdale and Lancaster. Above, Joseph Colletti, manager, Courson Park pool, megaphones cautioning word to youthful swimmers. School buses transport kids from outlying areas.

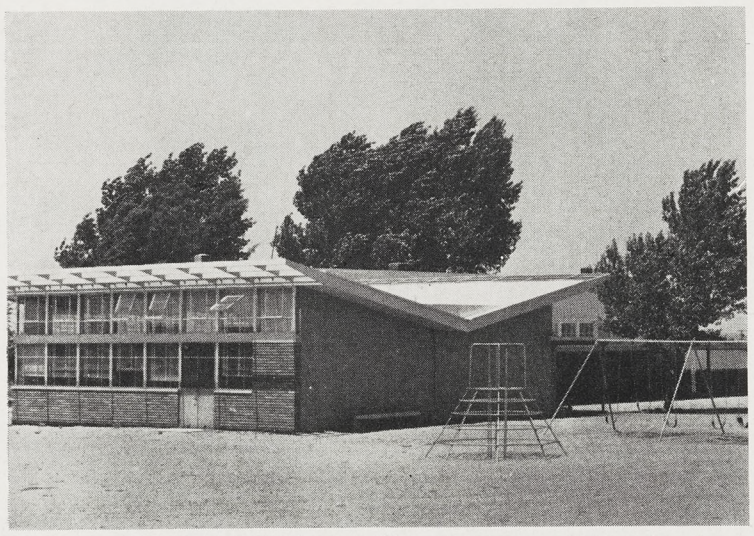


SPIRITUAL GUIDANCE of the valley lies with these members of Antelope Valley Ministerial Association and with other men of the cloth who were not present for the photo. Seated: Rev. B. N. Davis, Pearblossom Community Church; Rev. L. A. Bailey, Church of God, Rosamund; Rev. "Brother Jack" Aronold, Holy Gospel Church, Palmdale; Rev. Arthur K. Knowles, Assembly of God, Lancaster; Rev. George Hogan, First Southern Baptist; Rev. Norvall Pickett, First Baptist, Lancaster; Rev. E. H. Knoernschild, Grace Lutheran, Lancaster. Standing: Rev. Ray Burnett, Foursquare Church; Elder F. C. Pritchard, 7th Day Adventist, Lancaster; Rev. Will South, First Baptist, Quartz Hill; Rev. L. F. Goodell, Foursquare Church, Lancaster; Rabbi Robert Chernoff, Beth Knesset Bamid Bar, Lancaster; Rev. David Demry, Valley Church; Father Robert Juergens, St. Paul's Episcopal Church, Lancaster; Rev. F. B. Ellis, Community Methodist, Lancaster. Among prominent spiritual leaders missing from photo are: Rev. Charles K. Kennedy, Sacred Heart, Lancaster; and Rev. Martin C. Hiss, St. Mary's, Palmdale. There are 34 churches in Antelope Valley, representing many faiths.
(STUBBINGS STUDIO PHOTO)

MODERN STORES in both Palmdale and Lancaster make shopping pleasant. Lancaster business district, pictured above, is somewhat larger than Palmdale shopping area. Latter city has widened streets, installed curbs for parking.



PALMDALE GRAMMAR SCHOOL is ideally situated a short distance from Courson Park playground and swimming pool. Its shaded lawns are bordered by tall hedges. At far left a portion of the walled playground of Palmdale kindergarten is shown. This wall protects smaller children while at play. Valley educators are preparing for impending rise in population by planning new schools for future.



FUNCTIONAL MODERN LINES of Quartz Hill School are shown above. Most advanced in design of valley schools, this building serves rapidly growing community of 5000 population located a few miles west of Palmdale-Lancaster.

LANCASTER HIGH SCHOOL and Junior College is well equipped edifice with beautiful shaded campus. Valley also has four parochial schools. School buses serve entire area.

Stores Hold City Levels On Prices

Cost of living in many smaller communities is usually higher than that of the greater Los Angeles area, but a survey of Palmdale-Lancaster stores shows that prices for food, clothing, and other items are on a par with those in the city.

Shopping and banking are as pleasantly accomplished in the valley as in the city, and familiar chain stores make shopping areas no different from those in Santa Monica, Hawthorne, Lynwood or downtown Los Angeles.

Other items to be obtained at city prices are retail lumber, pipe and plumbing supplies, electrical equipment and appliances, and television sets.

The community of Palmdale has recently widened streets in the main business district and curbed parking lanes on either side of the street protect shoppers from through traffic as they park their automobiles.

Two main thoroughfares serve shoppers in Lancaster. Largest number of stores is located on West Tenth street. These range from department stores to small dress shops, and include super markets, modern drug stores, shoe stores, and furniture marts.

Sierra Highway, the other main business street, features "Restaurant Row", where excellent foods, ranging from caviar to hamburger, may be purchased at reasonable prices.

A feature not usually found in the city is free delivery of many types of goods by supply houses. This is due to the comparatively short distances such goods must be hauled. Heavy lumber, pipe, and other supplies are dropped on the building site free of charge in many cases.

All business establishments are air-conditioned in warm summer months and well heated in cooler weather.

PRELUDE to shopping tour is a stroll down pleasant street shaded by tall elm trees in picture at right. Lancaster misses pictured are Patricia Rae Herschlag, left, and Joanie Butters. Pleasing shopping districts invite shopping with tasteful displays in both Palmdale and Lancaster. Modern stores in these communities are air-conditioned and offer wares at prices which are on a par with those in greater Los Angeles shops.

SPACIOUS ULTRA-MODERN Safeway store recently built in Lancaster is largest of markets in Antelope Valley. Grocery stores throughout the valley are no different from the establishments in Santa Monica, Burbank, or other localities.

NEWEST BANK in valley is Palmdale Bank of America. Above, Manager Smith Swords chats with young couple who seek information on financial matter. Banks in Palmdale-Lancaster vicinity close on Saturday—stay open Friday night.

POST OFFICE BUILDING in Lancaster is similar to the one in Palmdale. Postal service from the area to Los Angeles is prompt. One day service from box to addressee prevails.

PRELUDE to shopping tour is a stroll down pleasant street shaded by tall elm trees in picture at right. Lancaster misses pictured are Patricia Rae Herschlag, left, and Joanie Butters. Pleasing shopping districts invite shopping with tasteful displays in both Palmdale and Lancaster. Modern stores in these communities are air-conditioned and offer wares at prices which are on a par with those in greater Los Angeles shops.

RECREATIONAL MAP OF ANTELOPE VALLEY

WOODFORD
466
TEHACHAPI
MONOLITH
SIERRA NEVADA
CUMMINGS VALLEY
PROCTOR LAKE
S.P.R.R.
6
MOJAVE
GOLD TOWN
BORON
TEHACHAPI MOUNTAINS
AQUEDUCT
LOS ANGELES
MUROC DRY LAKE
EDWARDS
EDWARDS AIR FORCE BASE
WILLOW SPRINGS
ROSAMOND
ROSAMOND DRY LAKE
SOUTHERN PACIFIC R.R.
CASTAC LAKE
99
GORMAN
QUAIL LAKE
138
FAIRMONT
THREE POINT
REDMAN
HI VISTA
ROOSEVELT
FAIRMONT RESERVOIR
DEL SUR
LANCASTER
HUGHES LAKE
LAKE HUGHES
MUNZ LAKE
ELIZABETH LAKE
QUARTZ HILL
MIRAGE DRY LAKE
N
PALMDALE AIRPORT
BOQUET RESERVOIR
PALMDALE
PEARLAND
PALMDALE RESERVOIR
LITTLE ROCK
PEARBLOSSOM
CASTAIC
ACTON
LITTLEROCK RESERVOIR

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
YUKON & 105TH OR YUKON & IMPERIAL. (Will also pick-up any one in vicinity of 118th Pl. and Christopher Aves.), Inglewood. BARBARA TILFORD (3410-816, Ext. 742 or 445), OR. 1-2446. (13-1-1)

(Zone 2)
BEVERLY BLVD. & UNION AVE., Los Angeles. ARCHIE HUDSON (5503-45, Ext. 2681), DU. 4-5703. (12-1-2)

(Zone 3)
MAIN & MANCHESTER OR IMPERIAL, Los Angeles. D. A. KING (5504-91, Ext. 1424), PL. 1-1542. (12-1-3)

(Zone 10)
MANHATTAN BEACH BLVD. & VOORHEES, Manhattan Beach. GEORGE TIMAR (5222-345, Ext. 1919). (12-1-10)

(Zone 14)
VERDUGO & SAN FERNANDO ROAD. (Route: Verdugo, San Fernando Road, Pasadena Speedway, Figueroa, Imperial Blvd., Crenshaw to Plant 2), Los Angeles. GUS M. GOMEZ (5960-99, Ext. 2161), CL. 7-6407. (2-12-14)

CRENSHAW & STOCKER, Los Angeles. GERALD B. STUMP (5587-169, Ext. 1973), AX. 2-5050. (2-12-14)

SANTA BARBARA & CRENSHAW. (Crenshaw to Plant 1), Los Angeles. FRANK KLINE (5586-14, Ext. 483), AX. 3-8963. (12-1-14)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 2)
GLENARM & PASADENA. (Route: Parkway, Figueroa, Santa Barbara, Crenshaw), Pasadena. BERNARD E. ZELLMER (5518-107, Ext. 2792), PY. 1-2452. (2-12-2)

(Zone 3)
POMONA & GARFIELD. (Usual route: Pomona, Atlantic, Manchester, Crenshaw, Broadway), Monterey Park. HARRY W. NELSON (5509-120, Ext. 2075), PA. 8-4636. (2-12-3)

(Zone 8)
CRENSHAW & 101. (Can take three riders, straight up Crenshaw from 101 highway), Torrance. JIM LYNCH (5163-38, Ext. 1821), DA. 6-5251. (12-3-8)

(Zone 14)
SUNSET & VINE. (Able to take 3 riders), Hollywood. JERRY L. BOURNE (5509-34, Ext. 2075), HO. 2-7919. (2-12-14)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 2)
MANCHESTER & WESTERN. (Route: Stanton, Artesia, Atlantic Blvd., Rosecrans, Crenshaw), Buena Park. RAY FAJARDO (9310-35, Ext. 2281), LA. 2-3533. (3-13-2)

(Zone 3)
COMMONWEALTH & MARTHA PLACE. (Route: Firestone, Rosecrans, Prairie. Can take up to four persons), Fullerton. CARL EUBANKS (5586-158, Ext. 1973), LA. 5-1368. (13-1-3)

HOOVER & 91ST, Los Angeles. JANICE C. ALSHIRE (1441-48, Ext. 691), PL. 6-5087. (13-1-3)

(Zone 5)
BELLFLOWER & STEARNS, Long Beach. WARREN W. BEEDLE (9310-24, Ext. 2297), LB. 341-905. (3-13-5)

(Zone 6)
SANTA FE BLVD. OR PACIFIC COAST HWY., Long Beach. RUTH LA ROQUE (5127-75, Ext. 678), LB. 708-038. (3-13-6)

(Zone 10)
HERMOSA AVE. & PIER AVE., Hermosa Beach. DOROTHY DAVIDSON (9320-88, Ext. 1681), FR. 4-9356. (13-1-10)

(Zone 11)
SANTA MONICA & 26TH, Santa Monica. HENRY R. JONES (5127-63, Ext. 1646), EX. 4-8984 (13-1-11)

BROADWAY & RAMONA AVENUE, Hawthorne. JAMES E. CLARK (4110-17, Ext. 2259). (13-1-11)

(Zone 13)
PICO & SAWTELLE. (Existing pool desires more riders or drivers), Los Angeles. HALL EVANS (3530-65, Ext. 2466), AR. 7-1727. (13-1-13)

(Zone 14)
LA BREA & BEVERLY, Los Angeles. ALBERT STAMPLE (5960-106, Ext. 2680), WE. 1-6401. (13-1-14)

RIDES OFFERED

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 12)
INGLEWOOD & LENNOX OR IMPERIAL. (Will drop off riders at Gate 8 or 10), Lennox. CAROL O. WANDERER (1810-816, Ext. 2024). (13-3-12)

(Zone 13)
PICO & SAWTELLE. (Existing pool desires more riders or drivers), Los Angeles. HALL EVANS (3530-65, Ext. 2466), AR. 7-1727. (13-3-13)

(Zone 14)
CRENSHAW BLVD. & RODEO ROAD, Los Angeles. KAROLL SHURTZ (3120-21, Ext. 439), AX. 2-3692. (13-3-14)

7:30 a.m. — 5:15 p.m.
(Plants 1 and 2)

(Zone 4)
NORWALK FIVE POINTS. JERI LIPPERT (5900-811, Ext. 1321), TO. 4-4837.

(Zone 6)
LONG BEACH BLVD. & WILLOW ST. (Interested in forming a car pool—will ride or will drive), Long Beach). BILL BRAMSON (3230-536, Ext. 581), Long Beach 40-9115 - Sat.). (14-1-6)

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 1)
WESTERN & SLAUSON. (If convenient will meet on Slauson and Crenshaw), Los Angeles. CLAUS J. BAUEMMER, jr. (7200-247, Ext. 510), AX. 1-5648. (6-16-1)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)
BEVERLY & ALVARADO. (Can pick up any place on Alvarado or Hoover), Los Angeles. JOSE C. LEDESMA (5544-440, Ext. 2645), DU. 2-5801. (18-1-1)

(Zone 2)
FIGUEROA & 3RD. (Western to Imperial to Crenshaw to Plant), Los Angeles. A. L. UNGER (5544-441, Ext. 2645). (18-1-2)

(Zone 4)
CENTRAL & 97TH ST. Will pick riders up in Watts, Wilmington or Compton area), Los Angeles. JIMMIE LOWE (5524-624, Ext. 2421), LO. 5-7641. (18-1-4)

(Zone 5)
LYNWOOD or COMPTON district, Lynwood. C. P. SMITH (5524-461), NE. 2-6096. (18-1-5)

(Zone 14)
CRENSHAW & ADAMS, Los Angeles. THOMAS O. WALKER (5587-841, Ext. 1947), RE. 3-7775. (18-1-14)

Rides Wanted

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
GLENDALE AVE. & E. CHEVY CHASE, Glendale. R. L. HOBBY (5534-114, Ext. 2421). (2-1-1)

(Zone 2)
BEVERLY BLVD. & UNION AVE., Los Angeles. ARCHIE HUDSON (5503-45, Ext. 2681), DU. 4-5703. (2-1-2)

(Zone 4)
PARAMOUNT & 7TH, OR PARAMOUNT & FIRESTONE, Downey. BETTY WILLIAMS (5507-135, Ext. 526). (2-1-4)

SAN PEDRO ST. & 118TH ST., Los Angeles. SYDNIE TARY (5352-65, Ext. 1651), PL. 4-0314. (2-1-4)

ATLANTIC AVE. & FERNWOOD AVE. (Fernwood just south of Century Blvd.), Lynwood), FUDGE NAVARRETE (5508-52, Ext. 2230). (2-1-4)

(Zone 5)
SPADRA & HI-WAY 14, Fullerton. BILL JAMES (5411-35, Ext. 2186). (2-1-5)

(Zone 6)
EAST ST. & WILHELMINA ST. (Could drive own car on occasion), Anaheim. E. H. INGRAHAM (7230-54, Ext. 2689).

(Zone 10)
STRAND AVE. & 9TH ST. (In front of Edison Bldg.), Redondo Beach. RUTH MCABEE (4250-36, Ext. 596). (2-1-10)

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 12)
HAWTHORNE & 111TH ST., Lennox. DOROTHY EVANS LAUVRAY (5501-41, Ext. 2200). (2-1-12)

CENTINELA & CULVER BLVD., Venice. MARY D. FOSTER (5588-89, Ext. 2619), EX. 7-6767. (2-1-12)

(Zone 13)
MANCHESTER & ASH OR OAK, Inglewood. GEORGANNE WESTLAKE (5352-79, Ext. 1508), OR. 2-6028. (2-1-13)

(Zone 14)
VERDUGO & SAN FERNANDO ROAD. (Route: Verdugo, San Fernando Road, Pasadena Speedway, Figueroa, Imperial Blvd., Crenshaw to Plant 2), Los Angeles. GUS M. GOMEZ (5960-99, Ext. 2161), CL. 7-6407. (2-1-14)

CRENSHAW & STOCKER, Los Angeles. GERALD B. STUMP (5587-169, Ext. 1973), AX. 2-5050. (2-1-14)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 2)
GLENARM & PASADENA. (Route: Parkway, Figueroa, Santa Barbara, Crenshaw), Pasadena. BERNARD E. ZELLMER (5518-107, Ext. 2792), PY. 1-2452. (2-3-2)

(Zone 3)
POMONA & GARFIELD. (Usual route: Pomona, Atlantic, Manchester, Crenshaw, Broadway), Monterey Park. HARRY W. NELSON (5509-120, Ext. 2075), PA. 8-4636. (2-3-3)

(Zone 9)
MANHATTAN BEACH BLVD. & PRAIRIE, Lawndale. LEAH HARRISON (1435-92, Ext. 2761). (2-3-9)

(Zone 10)
MANHATTAN AVE. & 28TH, Hermosa Beach. JOAN E. BROWN (5351-35, Ext. 2582), FR. 9-1213. (2-3-10)

(Zone 14)
SUNSET & VINE. (Able to take 3 riders), Hollywood. JERRY L. BOURNE (5509-34, Ext. 2075), HO. 2-7919. 2-3-14)

SANTA BARBARA & CRENSHAW BLVD., Los Angeles. ELIZABETH DREVES (5621-132, Ext. 1852), AX. 1-2048. (2-3-14)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 1)
NORMANDIE & 50TH, Los Angeles. MARGUERITE MOSS (6150-42, Ext. 2470 or 2051), AX. 1-5894. (3-1-1)

(Zone 2)
MANCHESTER & WESTERN. (Route: Stanton, Artesia, Atlantic Blvd., Rosecrans, Crenshaw), Buena Park. RAY FAJARDO (9310-35, Ext. 2281), LA. 2-3533. (3-1-2)

(Zone 3)
COMMONWEALTH & MARTHA PLACE, Fullerton. CARL EUBANKS (5586-158, Ext. 1973), LA. 5-1368. (3-1-3)

(Zone 4)
IMPERIAL HWY. & FIGUEROA STREET, Los Angeles. CECILIA M. SULLIVAN (7010-17, Ext. 1911), PL. 6-4458. (3-1-4)

(Zone 5)
BELLFLOWER & STEARNS, Long Beach. WARREN W. BEEDLE (9310-24, Ext. 2297), LB. 341-905. (3-1-5)

(Zone 6)
VERMONT & 161ST. (Could also meet ride at 161st and Ainsworth), Gardena. MARILYN NULTY (6110-41, Ext. 1745), ME. 9-4592. (3-1-6)

COMPTON & BERENDO (One block west of Vermont), (If necessary could also meet a ride at Redondo Beach Blvd. and Berendo), Gardena. JO ANN PUTNAM (4220-102, Ext. 2194), ME. 9-2583. (3-1-6)

SANTA FE BLVD. OR PACIFIC COAST HWY., Long Beach. RUTH LA ROQUE (5127-75, Ext. 678), LB. 708-038. (3-1-6)

VERMONT & 161ST OR FIGUEROA & 161ST (OLIVE), Gardena. MARIAN B. HASKELL (5200-12, Ext. 531), ME. 4-3655. (3-1-6)

NORMANDIE & COMPTON BLVD. (Ride wanted only in the morning), Gardena. CUBA COTE (3350-830, Ext. 1783).

(Zone 7)
COMPTON & VAN NESS, Gardena. JEANETTE MARYNOWSKI (4210-16, Ext. 616 or 641), ME. 4-4417. (3-1-7)

(Zone 8)
WESTERN AVE. & 247TH STREET, Lomita. ALICE K. INGRAM (4220-216, Ext 2260), DA. 6-3373. (3-1-8)

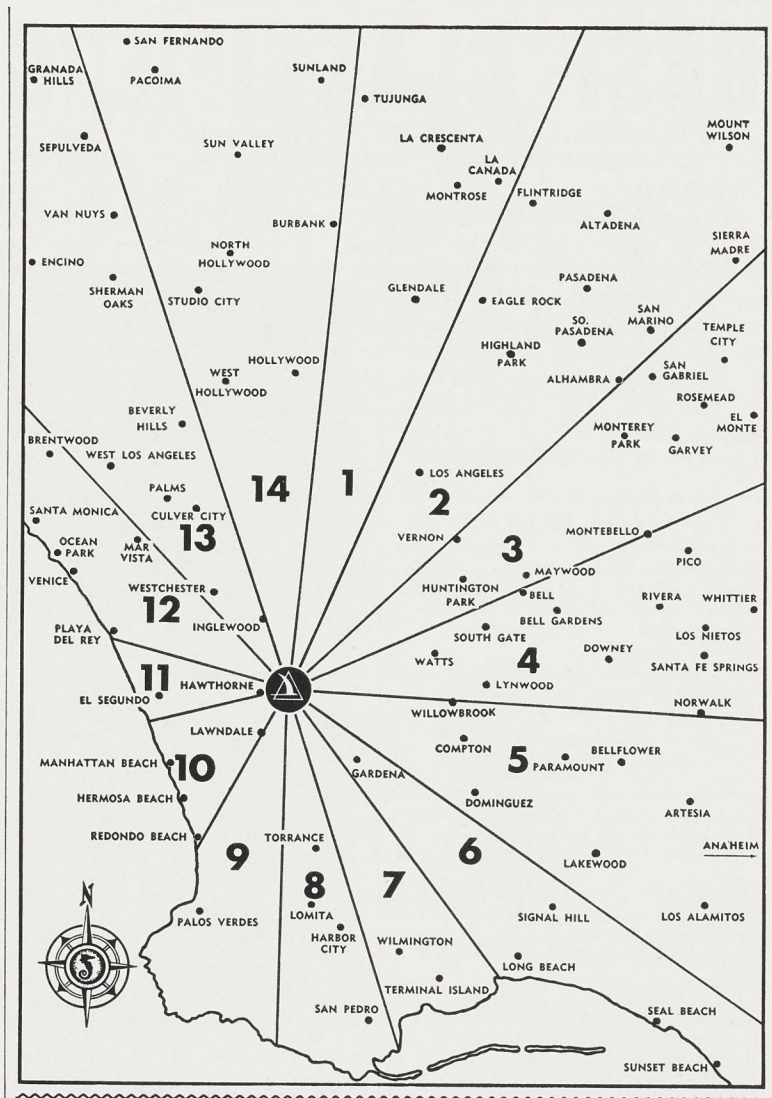
(Zone 10)
PIER AVE. & REDONDO BEACH BLVD., Hermosa Beach. VIOLET MYERS (5127-25, Ext. 1904). (3-1-10)

AVIATION & MANHATTAN BEACH BLVDS., Redondo Beach. TRUDY FEUZ (1441-12, Ext. 691), FR. 2-6575. (3-1-10)

HERMOSA AVE. & PIER AVE., Hermosa Beach. DOROTHY DAVIDSON (9320-88, Ext. 1681), FR. 4-9356. (3-1-10)

(Zone 11)
SANTA MONICA & 26TH, Santa Monica. HENRY R. JONES (5127-63, Ext. 1646), EX. 4-8984. (3-1-11)

(Zone 12)
AIRPORT BLVD. & LA TIJERA, Los Angeles, (Westchester). JAMES J. KELLEY (9310-61, Ext. 692). (3-1-12)



RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 12)
LA TIJERA & AIRPORT, Los Angeles. AMY WHITTEMORE (1442-7, Ext. 2671), OR. 2-2482. (3-1-12)

(Zone 13)
PICO & SAWTELLE, Los Angeles. HALL EVANS (3530-65, Ext. 2466), AR. 7-1727. (3-1-13)

LA BREA & CENTINELA, Inglewood. MARGE HAWKINSON (8400-30, Ext. 1406). (3-1-13)

(Zone 14)
CRENSHAW & 48TH, (Leimert Park), Los Angeles. SHIRLEY REDING (5127-24, Ext. 1747), AX. 3-8815. (3-1-14)

LA BREA & BEVERLY, Los Angeles. ALBERT STAMPLE (5960-106, Ext. 2680), WE. 1-6401. (3-1-14)

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
BEACHWOOD DR. & FRANKLIN AVE., Hollywood. RUTH CARTER (3140-746, Ext. 1391). (3-3-1)

WESTERN & VERNON. (Car pool arrangement satisfactory), Los Angeles. THOMAS CHU (3510-168, Ext. 2140), AX. 3-7724. (3-3-1)

(Zone 4)
IMPERIAL & FIGUEROA OR HOOVER. Los Angeles. ELINORE M. THOMAS (1210-18, Ext. 598), PL. 4-9194. (3-3-4)

IMPERIAL & FIGUEROA, Los Angeles. NORENE E. TRUJILLO (8620-114, Ext. 2011), PL. 4-9671. (3-3-4)

(Zone 9)
HIGHWAY 101 & AVENUE H, Redondo Beach. DIXIE ALBRIGHT (6270-22, Ext. 2451), FR. 5-4465. (3-3-9)

(Zone 12)
SEPULVEDA & WILL ROGERS, Los Angeles. GLADYS CUMMINGS (1435-89, Ext. 2761), OR. 1-8103. (3-3-12)

(Zone 13)
PICO & SAWTELLE. (Am interested in entering or forming car pool), Los Angeles. HALL EVANS (3530-65, Ext. 2466), AR. 7-1727. (3-3-13)

(Zone 14)
CRENSHAW & WASHINGTON OR ADAMS. (Urgently needed), Los Angeles. J. F. FORANCE (6110-52, Ext. 2534), RE 4-2372. (3-3-14)

SLAUSON & OVERHILL or LA BREA, Los Angeles. O. D. VAN NATTA (3460-94, Ext. 2466 or 2188), AX. 1-2239. (3-3-14)

CRENSHAW & IMPERIAL, Inglewood. IRENE SHERLOCK (8260-45, Ext. 2011). (3-3-14)

7:30 a.m. — 5:15 p.m.
(Plants 1 and 2)

(Zone 4)
NORWALK FIVE POINTS. JERI LIPPERT (5900-811, Ext. 1321), TO. 4-4837. (4-1-4)

8:00 a.m. — 4:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
VAN NESS & 81ST ST., Los Angeles. ANN STEVENSON (1435-47, Ext. 2228), PL. 2-4995. (5-3-1)

RIDES WANTED

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 1)
WESTERN & SLAUSON. (If convenient will meet on Slauson and Crenshaw), Los Angeles. CLAUS J. BAUEMMER, jr. (7200-247, Ext. 510), AX. 1-5648. (6-1-1)

ARLINGTON AVE. & 25TH, Los Angeles. CHARLES LANDER (5501-80, Ext. 2200), RE. 6720. (6-1-1)

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 4)
MAIN ST. & IMPERIAL HIGHWAY, El Segundo. W. H. WOODBURY (5501-420, Ext. 2200). (6-1-4)

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 9)
HAWTHORNE BLVD. & 166TH, Lawndale. JACKIE DI STEFANO (9330-264, Ext. 1474). (7-1-9)

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)
SUNSET & ALVARADO, Los Angeles. ARTHUR M. WARD (7520-211, Ext. 1301), DU. 7-8698. (8-1-1)

(Zone 4)
LONG BEACH BLVD. & FIRESTONE. (Located between Tweedy and Firestone Blvd.), South Gate. AGNES RODGER (5507-462, Ext. 526). (8-1-4)

STEWART & GRAY & PARAMOUNT BLVD., Downey. SINDELL L. DANTE (5507-453, Ext. 526), TO. 9-4340. (8-1-4)

(Zone 5)
PARAMOUNT BLVD. & DEL AMO BLVD., Lakewood. W. H. AHEARN (5587-603, Ext. 1947), LB. 393-074. (1-8-5)

(Zone 6)
VERMONT & 168TH ST., Gardena. HILDRED R. ROOMES (5507-492, Ext. 526). (8-1-6)

(Zone 9)
HAWTHORNE BLVD. & 182ND, Torrance. A. F. HYNES (5585-463, Ext. 1382), FR. 2-4622. (8-1-9)

(Zone 10)
AVIATION BLVD. & MANHATTAN BEACH, Manhattan Beach. VIRGINIA K. GATES (5524-601, Ext. 2209), FR. 2-7565. (8-1-10)

HIGHLAND AVE. & ROSECRANS, Manhattan Beach. MARION F. ROSE (5507-41, Ext. 526), FR. 2-8608. (8-1-10)

(Zone 12)
PACIFIC AVE. & MAIN ST., Venice. EDITH JARAMILLO (5534-231, Ext. 2244). (8-1-12)

LINCOLN & SUPERBA AVE., Venice. PAUL M. MOORE (5508-256, Ext. 2230). (8-1-12)

DOTY & IMPERIAL HIGHWAY, Inglewood. BLENDA NORTHROP (5507-490, Ext. 526). (8-1-12)

(Zone 14)
ETHEL AVE. & BURBANK BLVD., Van Nuys. CECIL C. STEPHENS (5586-490, Ext. 1973), ST. 6-2904. (8-1-14)

VENICE & 17TH OR WASHINGTON & 17TH, Los Angeles. VIRGINIA BURNETT (5507-487, Ext. 526), PR. 8007. (8-1-14)

(Continued on Page 6)

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

CHEVROLET, 1951 Bel Air with extras, 2-tone blue and grey, radio and heater, battery, generator, brakes, and numerous minor parts recently replaced. J. T. LYNCH, WH. 9597. A

BED, Hollywood, headboard, 2 night stands, box spring, and innerspring mattress, 1 year old, $75, J. LYNCH, DA. 6-5251. A

COLT, single action, Bisley model, .38 special caliber, numerous parts recently replaced with Colt parts, $175 to $200 appraisal, $100, SHOTGUN, Springfield, double-barrel, 16 gauge, like new condition, $40, WALLY HENRICH, FR. 4-5412. A

TV set, 21" Natalie-Kalmus, mahogany finish, 1953 console, like new, $100 cash and take over balance of ten small monthly payments, REONA RILEY, OR. 7-6051. A

HOUSE, ranch type, 2-bedrooms, den, fireplace, rear of lot two-car garage with attached 1-bedroom apartment. Can be rented for $50 or more, located in No. Redondo, $9700 — $5000 down, payments $50 per month, M. ORTH, FR. 4-4016. A

MOTORCYCLE, 1950 Mustang, excellent condition, reasonable offer, CYNTHIA WOODS, FR. 2-6867. A

FORD, 1937 sedan, good engine and tires, '54 license tab, $69, W. B. WEIKAL, OR. 7-1949. A

MODEL A pick-up truck, $75; 2 welding REGULATORS, $10; almost new BASSINETTE, $7.50; 2 good DOES, $7; FR. 2-4474. A

TRAILER, 2-wheel, good springs, 2 retreads, like new, plus spare, enclosed bed, 3' x 8' x 3½', $55, L. A. WANDERER. Reply in writing to Northrop News, Box 1309. A

MG-TC, 1949, with radio, green with white wire wheels, excellent condition, $1,150, MAGGI SHIMER, YO. 4582. A

CEMETERY LOT, 4 plot, Rose Hills cemetery, Whittier, $675 — $60 down, $11 per month, STANLEY PETERSEN, TO. 4-7680. A

CHEVROLET, 1936 2-door sedan, trailer hitch hooked to frame, good running condition, $35, GARY E. MERRILL, OS. 6-1238. A

BUICK, 1950 Special 4-door, radio and heater, excellent condition, $850, NEILL LANGFORD, FR. 4-2590. A

HILLMAN-MINX, hardtop convertible, '53 and '54 model, whitewall tires, 4 months old, less than 4000 miles, original price $2300 — $719 cash invested, will sell equity for $300 cash, L. O. COLEY, ME. 9-3330. A

VOLTMETER, Simpson, Eico VTVM voltmeter (wired), Barker-Williamson distortion ANALYZER, Jackson #655 audio OSCILLATOR, DuMont dual beam OSCILLOSCOPE, American Beauty soldering irons and regulated stands, Hickok WATTMETER, regulated laboratory power supplies and 4 Sylvania 21EP4 TV picture tubes, manufacturer's one year guarantee, C. J. WEILAND, ME. 9-4279. A

BEDROOM SET, modern limed oak, excellent condition, only six months old, BARBARA HERMAN, AX. 3-7509. Reply in writing to Northrop News, Box 1304.

FORD, 1952 Consul, 18,000 miles, very clean, any offer over $250 for my $600 equity will be accepted, small monthly payments of $37.76, must sell, J. R. HAUPENTHAL, jr., DI. 2-0313. A

BABY SCALE; BASSINETTE; 12" TV set, J. D. ADAMS, FR. 4-1395. A

GAS STOVE, apartment size, very good condition; KITCHEN CABINET, steel; CAR HEATER, hot water, like new; 2 FOG LIGHTS; PHYLLIS BABCOCK, OS. 6-6696. A

PUPPIES, Cocker Spaniel, A.K.C. registered, reasonable, R. A. BARBER, ME. 4-6216. A

HOUSE, two bedroom, Manhattan Beach, good condition, large lot completely fenced, $1250 down — $8995 total price, FR. 4-0697, B. P. BRADY. A

MODEL "A" Victoria, original mohair, 16" wire wheels, has had good care, first $100, RICHARD SMITH. Reply in writing to Northrop News, Box 1307. A

CLOTHES DRIER, almost new, 1953 G. E. with 220 volt pigtail, $180, MARGARET HARLEY, FR. 4-0067. A

BUICK, 1946 Roadmaster, 4-door, '47 grill, good 2-tone paint, tires, radio, heater, fog lites, clean tight car, $445, LEW WHITMORE, AR. 7-4868 — mornings or Sundays. A

FOR SALE

DEEP FREEZE, 18.4 cubic feet Coolerator, separate quick-freeze compartment, year old, cost over $600 new, $275 or best offer, R. E. KISSACK, ME. 4-0119. A

BANJO, Kay tenor, with case, has resonator and nice ring, $20, OS. 6-5847, J. W. HARRIS. A

OLDS, 1941, light green, motor in good condition, good tires, radio and heater, seat covers, very good transportation car, $195, JOE HALDEMAN. Reply in writing to Northrop News, Box 1305. A

MANGLE, Horton, $25; walnut veneer BUFFET, $15; Keystone movie CAMERA and projector, 8mm, $75; Winchester model 97 12 gauge pump SHOT GUN, like new barrel, $50; model RACING CAR, aluminum body, fuel, extra spark plugs, condenser $10; BIKE, Boy's 28", high pressure tires, $20. DON CARLBERG, OS. 6-4752. A

DAVENPORT and CHAIR, excellent condition; platform ROCKER; two END TABLES, (round drum with drawer); 2 LAMPS; will sell for any reasonable offer, must dispose of them soon, MARY FORD, ME. 4-8662. A

CHEVROLET, 1936, Standard, radio, heater, trailer hitch, very good condition, $70, E. C. ERTZ, FR. 5-4432. A

ELECTRIC RANGE, Hotpoint, good condition, $45, LORENE H. CASTLE, OS. 6-6604. A

PLYMOUTH, 1934 coupe, looks and drives good, $75, ROSALIE GEESAMAN, FR. 5-1786. A

REFRIGERATOR, 6 cubic feet, Philco, 12 months old, moving — must sell, $200, J. G. CLARK. Reply in writing to Northrop News, Box 1301. A

AUSTIN, 1936 BRITISH, 4 passenger, sedan, good condition, $125, A. E. HINKER, TE. 4-0400. A

WATER SOFTENER, Homart, $50; BENDIX Economat, $35, ALICE K. INGRAM, DA. 6-3373. A

BOAT — 25' double ender with universal 25 h.p. marine motor, cabin room for two bunks, bait tank with electric motor, $850, B. A. KRAMER, ME. 4-6484. A

BABY CARRIAGE, large, two-tone gray, excellent condition; pair modern DRAPES, like new, make offer, L. E. MERRITT, NE. 5-1474. A

DODGE, '47 2-door sedan, good mechanical condition, radio, fluid drive with conventional transmission, $275, cash, D. R. STUETTIG, OR. 7-1269. A

WASHING MACHINE, portable $15; barbecue pit MOTOR, like new $7; Army type FOOT LOCKER $2; radio PHONOGRAPH $10; 1/3 h.p. 1750 rpm motor $5, DONALD J. BURTCH, NE. 2-4527. A

OLDSMOBILE, (66) 1947 4-door sedan, motor overhauled, new battery and tires, 1954 license. First $580 takes it or best immediate offer, 'KIRK', PL. 5-6610. A

FRY-RYTE, less than a year old, has been used less than half dozen times, like new, will sell for $20, JOSEPHINE BECK, DU. 8-7214. A

REFRIGERATOR, Westinghouse, 7.2 cubic foot, perfect condition, like new, $95, EVERETT F. MALCOLM, AX. 3-2682. A

SINGER 1952 sports car, low mileage, radio, make offer, FRANK PRENDERGAST FR. 5-2364. A

MOTOR — 6 h.p. electric, good condition, $60, J. W. STATLEY, OR. 7-5545. A

LAMPS, 2 matching, ideal for modern type furniture, original cost $80, make offer, D. L. SHEA, FR. 5-2807, before 3:30. A

PLYMOUTH, 1937 sedan, new seat covers and battery, good dependable transportation car, $50, L. G. HULBERT. Reply in writing to Northrop News, Box 1303. A

TV console, 12½" Packard-Bell, blonde, perfect condition throughout, price $75; DEER RIFLE, Marlin 30-30 long barrel, 2 boxes shells, ram rod, $55; DEER RIFLE, model #916, 8 MM Danzig long barrel, Weaver scope #330, ram rod, 2 boxes shells, $175 value for $90; CYLINDER GRINDER, model 4681, self lubricating, $35 value for $22.50, BLANKETS, 6 like new, quilted moving and/or outing blankets, heavy dark brown, 68" x 78", value for $4 each, MARY GARDNER. Reply in writing to Northrop News, Box 1306. A

FORD ENGINE, 1937, full-race, turns 138 mph, $200 or best offer, ED F. HUSTEDT, RE. 4-1350. A

STAMP COLLECTION — general world wide, mint and used, catalog over $80, will sell for $50, J. O. EGGERS, EX. 8-7587. A

FOR SALE

FORD, 1929 model "A" sport coupe, fair condition, can be seen at Seaside Service Station, corner 165th and Hawthorne Blvd., Lawndale, $50, MYLES H. STANDISH. A

HOUSE TRAILER, all metal, clean, sleep four, compact 3-room apartment; also small TRAILER; HILLMAN-MINX, '53 convertible, all extras, sacrifice, FRANKIE PEACE. Reply in writing to Northrop News, Box 1321. A

CAMERA, Carl Zeiss; Ikoflex model II, F3.5 tessar in compur rapid shutter with Heiland flash unit; lenshade, filters and accessories, $75, AL SAIGET, PL. 1-4205.

COLLECTORS ITEM — 100 different metal street car and bus fare tokens, 10 cents apiece, KENNETH SMITH, TW. 1428. A

TRAILER FRAME, 27', almost new, tandem wheels, electric brakes, has masonite body, ideal for moving furniture or to convert into house trailer, $350, WILLIAM J. BAUMGART. Reply in writing to Northrop News, Box 1323. A

FURNITURE, studio couch, cover; large sofa, matching chair; end tables, coffee table; kitchen table, four chairs; no reasonable offer refused, KEN KLIER, FR. 9-1352. A

GUITAR, Rickenbacker steel, like new, with stand, cost $270 new with stand, will sell for $160, VERNON P. HUBBARD. Reply in writing to Northrop News, Box 1315. A

RING — absolutely blue-white and perfect diamonds engagement ring, 68 pts. and 2 diamonds. $450, AUGUST ERDY. Reply in writing to Northrop News, Box 1328. A

FORD, 1950, (6) — Deluxe club coupe, excellent condition, need $275 equity — balance of $720 in monthly payments of $38 to Bank of America, WAYNE L. WARD, FR. 4-6315. A

LAND, five acres near Lancaster, good soil, electricity available, $95 down and $25 per month; 1 pair STOCK HEADS for '41 to '47 Ford or Mercury; WOODY. Reply in writing to Northrop News, Box 1318. A

CHICKEN RAISING EQUIPMENT — includes laying and fryer batteries, modern brooder and coops, your price, FLOYD IDEAL. Reply in writing to Northrop News, Box 1313. A

MOTOR SCOOTER, '51 Cushman "Husky", perfect condition, call Dave, FR. 4-3950. A

BLOCK ASSEMBLY, suitable for rebuilding, no cracks, never been re-bored, out of 1946 Pontiac, 8 cylinder, $5, H. F. GREGORY. Reply in writing to Northrop News, Box 1316. A

TRAILER, one wheel, fully enclosed steel body, ideal for the camper or tourist, one girls' 26" BIKE in A-1 condition, J. HARTY STJERN, PL. 4-8092. A

PARAKEETS — beautiful, young, healthy birds, all colors, will make wonderful pets, $3 each, LOUISE T. McCULLOCH, OR. 2-2434. A

HOUSE — almost new, 2-bedroom, Torrance area, large lot, 50' x 180', full price $8500 — $1500 down and $64 month, ME. 4-7213. A

FORD, 1951 Country Squire station wagon, radio and heater, overdrive, 28,000 miles, $1300; PUPPIES, German Shepherd, three months old, AKC registered, $75 to $100, W. H. SNYDER, TO. 6-4797. A

PLYMOUTH, 1950 deluxe 5-passenger coupe, Original owner has kept this car in perfect condition, good tires and heater, 30,000 miles. I wish to sell for cash, so I am offering the car for only $875, OR. 2-5487, after 5:00 p.m., VIRGINIA PERRY. A

MODERN SOFA (makes into bed); CHAIR, flower design fabric, trim in grey plastic, $50, W. F. SMITH, PL. 5-8836. A

CADILLAC, 1939, 60S, Fleetwood 4-door sedan, $150; TRUCK PARTS, 7:00-20 tires with tubes, $10 each; JXC Hercules engine; 8' x 20' hadwood bed; Timken trailing axle, $50 each, W. A. S. DOUGLAS, ME. 4-5080. A

VACUUM CLEANER, Electrolux, with all attachments, $25, C. D. WILLIAMSON, AD. 4-8197. A

DODGE, 1946, 4-door Custom sedan — radio, heater, good paint, 3 good tires, motor noisy but runs good, $395, EARL F. CUMMINGS, PL. 6-4858. A

FORD, 1951 Victoria, like new, all extras, 29,000 miles, one owner, $1150, G. D. WRIGHT. Reply in writing to Northrop News, Box 1320. A

WANTED TO BUY

DRILL PRESS, jig saw, jointer, good condition, reasonably priced, JIM NANSCAWEN, ME. 9-3764 after 6:00 p.m. B

HOUSE TRAILER, 2 bedroom, 35 foot, eastern built preferred, must be reasonable for cash, W. H. WOODBURY. Reply in writing to Northrop News, Box 1310. B

INCUBATOR, suitable for continuous hatching and incubating of game birds with variable incubation periods, D. R. PERRY, TO. 4-2293, evenings. B

TRACTOR, with implements; ¾", 1", 1¼" galvanized pipe; 2 h.p. to 6 h.p. gas ENGINES, C. B. EDINGTON, jr. Reply in writing to Northrop News, Box 1302. B

RECORDS, 45 rpm, LARRY LAUER, OR. 1-3798. B

WANTED TO BUY

WOODWORKING TOOLS and equipment, J. A. RICHARDSON, ME. 4-6414 or EX. 7-6684. B

CHEVROLET, ½-ton pick-up, cash, or will take over payments, trade '42 Ford as part payment, 1946-54 model, RAY GRISH, FR. 2-4673. B

REFERENCE BOOK, "The Lincoln Library", good condition, no preference as to binding, LORENE H. CASTLE, OS. 6-6604. B

VACATION TRAILER, 12' or 14', '52 or '53 model, will pay cash, WOODY. Reply in writing to Northrop News, Box 1319. B

FOR SALE OR TRADE

KAISER, 1953 Manhattan, 4-door, equipped with extras, like new, will take '52 Kaiser or ? for equity on small balance, $3000 full price or $2100 cash and take over payments, D. EAGLIN, NE. 1-7209. A

MARE, 3 year American saddle-bred, (can be registered), untrained, halter broke, good blood, from Bell Kirby by Grand Noble, will trade for horse 5-7 year, make offer, CLAIRE MATTHIES, LA. 5-1959. C

FORD, model "A", panel-delivery, runs good and has 16" wheels and tires, 1954 tabs are paid for, $30, or trade for? W. HENRICH, FR. 4-5412. C

DODGE, 1953 ½-ton pick-up, deluxe cab, heater, fluid drive, will take good used car for equity, PAUL J. TELLES, jr. Reply in writing to Northrop News, Box 1308. C

COMMERCIAL FISHING BOAT — 30', double-ender, 9' beam, sleeps 2, 4-cylinder Continental 40 h.p. engine, auxiliary sails, 1S20R receiver and power factor — $1,000 or equivalent in late model car, EVELYN LOCHRIE. Reply in writing to Northrop News, Box 1314. A

AMPLIFIER, 14 watts, will sell or trade for good guitar, $20, GEORGE B. NORRIS. Reply in writing to Northrop News, Box 1330. A

HUNTING CAR, full length bed, good rubber, radio, heater, 2 single air mattresses, $125, or trade for 8mm movie projector or what have you, C. D. WILLIAMSON, AD. 4-8197. C

FOR TRADE

AMPRO TAPE RECORDER, will trade for electric drill, lathe, drill press, automatic washer, skill saw, give or take cash difference, RAY GRISH, FR. 2-4673. C

MOVIE CAMERA, Keystone, projector, screen and filter (haze), 8 MM, or 12 gauge Winchester model 97 pump shot gun to trade for late model typewriter, DON CARLBERG, OS. 6-4752. C

MOVIE CAMERA — 8mm Revere model 99, 3 lens turret, trade for two-speed tape recorder, must be good, H. E. CONVERSE, OR. 7-0861. C

HOME TO SHARE, expense free, for woman alone or woman with one child, in exchange for child care during night shift hours. Details arranged by personal interview, PATRICIA SEIDLER, FR. 9-1123.

RENTALS OFFERED

BACHELOR APARTMENT for one man, one block from beach, three blocks from town, $60, MRS. WYNN, FR. 2-6470. E

ROOMS, private, in new home, two miles south of Plant One, share rest of house, two rooms available, one $40, one $45 per month, C. ALLEN YEAGLE, OS. 5-6007. E

HOUSE, 3-bedroom, unfurnished, garage, fenced yard, near Northrop, $75 month, H. R. PETERSON, ME. 4-3911. E

APARTMENT, 1-bedroom, newly decorated, completely furnished, $60 per month, must move east, renter must buy furniture, selling everything, $550, LOIS STARK, OR. 1-0931. E

RENTALS OFFERED

APARTMENT, completely furnished, early American, suitable for two, EX. 9-4659, $60 month, R. H. HOPKINS. E

HOUSE — Palmdale, 3-bedroom, air conditioned, new — never occupied, 2 miles to town, 3 miles to Northrop, children OK, available Feb. 10 to 15, $110 per month — on lease, C. G. DICKSON. Reply in writing to Northrop News, Box 1312. E

HOUSE, 2-bedroom and rear cottage income, near Rosecrans and Atlantic Blvd. in Compton, all for $90 per month, rear cottage is now rented for $30 month, 'KIRK', PL. 5-6610. E

ROOM in nice home very close to Northrop — swing shift worker preferred, $10 a week, BETTY JANE Mc NABB, PL. 4-3698. E

RENTALS WANTED

LAND — wanted to lease an acre of suitable land for growing gladiolus, must be near Plant One, or within ten mile radius of Culver City, C. B. EDINGTON, jr., CR. 6-4262. F

APARTMENT, 1-bedroom or bachelor, furnished, Inglewood area. Reply in writing to Northrop News, Box 1326. F

APARTMENT, 1-bedroom, furnished or unfurnished, Northrop vicinity, JANET GILLEY. Reply in writing to Northrop News, Box 1322. F

HOUSE, unfurnished, 2 bedrooms and den or 3 bedrooms, by February 15 or before, prefer vicinity of Western and Imperial, MARY LIBERATORE, OS. 5-4503. F

APARTMENT or HOUSE — 2-bedroom, unfurnished, fenced-in back yard, Hawthorne or Lawndale area, have one boy and dog, will pay up to $65 month, E. S. HUBERT. Reply in writing to Northrop News, Box 1329. F

ROOM — father and 4-year old son desire room, including child care during day, KENNETH MATSON. Reply in writing to Northrop News, Box 1317. F

2-bedroom, well furnished, needed by February 15, ocean front or beach area preferred. please call GERRIE RYAN FR. 2-5746, after 5:00 p.m. F

CHILD CARE OFFERED

CHILD CARE—high school senior available after 2:00 p.m. weekdays, all day Saturday or Sunday, OS. 5-5889, M. A. WISDOM. G

CHILD CARE, age 2½-5, very good care, TV at meal time, lots of play equipment and plenty snacks, $10 first shift only, OS. 5-4825. G

CHILD CARE WANTED

CHILD CARE — three children, ages 2, 4 and 9 need a home Monday through Friday, price open to discussion, J. M. CHANEY, Ext. 616. H

CHILD CARE — high school senior available for child in own home or child's home, night shift, price open to discussion, J. M. CHANEY, Ext. 616. G

ROOM — father and 4-year old son desire room, including child care during day, KENNETH MATSON. Reply in writing to Northrop News, Box 1317. H

LOST

DOG — small white and tan mixed fox terrier wearing a faded red leather collar, brass rabies vaccination tag attached, missing since January 6 from the vicinity of El Segundo and Vermont — R E W A R D — JANET G. BOYER, PL. 5-2140. J

PERSONALS

DRIVER WANTED — expenses paid to dependable driver for delivering 1950 Oldsmobile coupe to Florida, FR. 2-3279, evenings, GILBERT R. CLARKE. L

Going My Way

(Continued from Page 5)

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Plant 3 and El Segundo Buildings)

(Zone 2)

MISSION & SOUTH PALM. (I could meet driver in Monterey Park on Valley Blvd. or Garvey Blvd.), Alhambra. FLOYD STRANGE (5621-269, Ext. 2487 or 2208), AT. 4-7636. (8-3-2)

Miscellaneous (Split Shifts)

(Plants 1 and 2)

(Zone 13)

MANNING & BUTTERFIELD (Near PICO). (Can walk up to Pico and Manning or any other convenient intersection. (Hours 5:15 to 1:45), Los Angeles. HAROLD E. CURTIS (9350-229, Ext. 1674). (10-1-13)

Miscellaneous (Split Shifts)

(Plant 3 and El Segundo Buildings)

(Zone 11)

INGLEWOOD AVE. & 134TH. (Hours 4:15 to 12:45), Hawthorne. CAROLE MOORE (3140-211, Ext. 403 or 457), OS. 6-4924. (10-3-11)

Lynwood

RIDES WANTED

7:00 a.m. — 3:45 p.m.

(Zone 5)

VERMONT & ROSECRANS, Gardena DON L. KIRKSEY (7100-42, Ext. 103), ME. 4-2280. (2-12-5)

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 5)

VERMONT & ROSECRANS, Gardena DON L. KIRKSEY (7100-42, Ext. 103), ME. 4-2280. 2-Lynwood-5)

Miscellaneous & Split Shifts

LAKEWOOD & BELLFLOWER, Norwalk. DONALD R. DOUD (7100-218, Ext. 1611), TO. 4-4394 (4:15-12:45). (2-Lynwood-5)

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Cellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BALLROOM DANCING
Open house and dance contest, Saturday evening, February 20, 7:30 p.m. NRC Clubhouse. Everyone welcome.

BASKETBALL CLUB (day)
Larry Baird, acting commissioner
Interdepartmental League play Monday and Thursday 7:45 to 10:00, Leuzinger High School Gym. Spectators welcome.

BASKETBALL CLUB (night)
Available practice sessions at Rosecrans Playground, 149th and Vermont, Gardena—Monday and Tuesday mornings, 10:00 to 12:00.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily—Plant I, Plaster Shop tent, 11:00 a.m.; Plant II, second floor, center conference rm., 12:30 p.m.; Plant III, conference room 5, 12:15.

BOAT CLUB
Harold Senter, commissioner
Next meeting Monday, February 1, at 7:30 p.m., NRC Clubhouse. Election of officers to be held.

BRIDGE CLUB
Bill Glose, acting commissioner
Meet 2nd & 4th Tuesday each month. Next meeting Feb. 9, NRC Clubhouse.

CAMERA CLUB (day)
Walt Darby, commissioner
Meet 2nd and 4th Friday of month, NRC Clubhouse. Next meeting, Feb. 12.

CAMERA CLUB (night)
Adam Slusarz, acting commissioner
Meet 1st and 3rd Saturday of month, Feb. 6, NRC Clubhouse.

CHESS CLUB
Ed Fisher, acting commissioner
Meet every Tuesday evening, 7:00 p.m., NRC Clubhouse Board Room.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GOLF CLUB (day)
Jim Milne, commissioner
Handicap Committee will meet at the NRC Clubhouse on the first and third Saturdays in February, 7:00 p.m.

GUN CLUB
Dick Booth, acting commissioner
Meet every other Tues., 7:30 p.m., NRC Clubhouse. Next meeting Feb. 2.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m. Call PA&S for information concerning meeting place.

PHILATELIC CLUB
George Borton, commissioner
Philatelic & Numismatic combined club meets 2nd and 4th Monday each month. Next meeting Feb. 8, NRC Clubhouse, 7:30 p.m.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun., Jan. 31, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, Jan. 28.

SEA SCOUTS
Frank Ziegler, representative
Meet every Wednesday, 7:30 p.m., Scout Hall, 134 Grevillea, Hawthorne.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Feb. 6. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKI CLUB
Ken Waters, acting commissioner
Meet every Wednesday evening, 7:30 p.m., at NRC Clubhouse.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Jan. 29, NRC Clubhouse Board Room.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse. Pictorial Hare & Hound Jan. 30, 10:00 a.m., Clock Drive-In at Imperial & Firestone Blvds.

SQUARE DANCING
Dave Dyer, commissioner
Meet at Swimms Barn, 15016 Daphne St., Gardena, from 7:00 to 10:00 p.m. Meet 1st, 2nd, 4th & 5th Sunday of each month.

SURF FISHING
Ted Griswold, acting commissioner
Meet 1st Thursday each month, NRC Clubhouse, 7:30 p.m. Next meeting Feb. 4.

TOASTMASTERS 212 (day)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS 1398 (night)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon, Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Orval Coley, commissioner
Meet Wednesday, Jan. 27, 7:30 p.m., NRC Clubhouse.

Norcrafter Cagers Open Action

ACTION ON THE COURT—Lynwood versus Vendor Assembly Rework (5518) at Leuzinger High School, January 4—opening night for the NRC Scorpion League—shows Norcrafter basketeers vying for the net. Jumping for tip-off—Tony Piccerello, Lynwood, and Larry Christoferson (5518). From left, in foreground: Team Managers Reed Peterson, Lynwood, and Merrill Lawson (5518). In tip-off action, background—Curtis Johnson (5518); Dick West, Lynwood; and Larry Norton, Lynwood. The game wound up 50 to 14 for Lynwood. Both the Scorpions and the Snark Leagues are now well into the season. Night Shift cagers are also having-at-it in the four team Southwest Industrial League (story below).

Scorpion, Snark Leagues Open With Heated Action

The NRC Scorpion League's basketball aggregations got off to a healthy start Monday, January 4, before a large crowd at Leuzinger High School Gym.

The opening night saw 5501 defeat 9340, 40 to 36. Other night games saw Lynwood triumph over 5518, 50 to 14 (see photo). Department 5100 defeated 3230 by a score of 34 to 20 in the final tussle.

In second-week play, the Lynwood hoopsters continued their winning ways with a 44-27 win over 3230.

Department 5501 also stayed in the win column, 47 to 35 over 5100. This game has been termed the best of the season thus far. Fuller and Bosses racked up 23 and 18 points respectively for the winners; Woolridge and Levi accounted for 17 and 12 points for the losers.

Also in the second week, 9340 hit the winning column with an easy victory over 5518, 38 to 13.

Third Week Results — 5501, 74; 5518, 22. 9340, 36; 3230, 28. Lynwood, 35; 5100, 27.

TEAM STANDINGS

Team	Wins	Losses
5501	3	0
Lynwood	3	0
9340	2	1
5100	1	2
3230	0	3
5518	0	3

Meanwhile, the Snark League got well into its schedule of play beginning on January 7, with three close games. The results: Department 5503, 36 to 19 over 5353; Department 3350 swept to a win over 3142 by a score of 31 to 25; Department 3250 won over 8620, 27 to 17.

Second Week — 3350, 25; 3250, 11. 8620, 31; 5353, 21. 5503, 36; 3142, 24.

Up to press time top honors in the Snark League in individual games scores were held jointly by Abeyta, 5503, and Powers, 8620 — 13 each. Other consistently high scores were racked up by Nissen, Harris, Johnson, Bayar, Williams, and Wells.

TEAM STANDINGS

Team	Wins	Losses
5503	2	0
3350	2	0
8620	1	1
3250	1	1
5353	0	2
3142	0	2

END OF JANUARY OUTING PLANNED FOR SKI CLUB

Enthusiasm is high in the Northrop Ski Club, with activities scheduled for each week end while the white coating is good in nearby areas. Ken Waters, acting commissioner, and Dorothy Shull, club secretary, announce plans for an overnight ski trip on January 30-31 to Big Bear.

Northrop Ski Club members now number forty, including Arnold Green, expert skier, who has instructed the armed forces in ski patrol duty. Arnold has been skiing since 1940 in Switzerland, Germany and France, among others, and has offered pointers to club members in all stages of skiing.

Personnel interested in the club or desiring information on out - of - town accommodations may contact Dorothy Shull in the PA&S office at Plant I.

NIGHT HOOPSTERS HOLD LOOP LEAD IN EARLY PLAY

Night shift cagers representing the NRC in the Southwest Industrial League have raced to the top of the standings in the loop with triumphs over Hughes, North American, and Douglas.

Playing on Tuesday mornings at the Baldwin Hills gym, La Brea and Rodeo Road, the night shift casaba quint is slated to meet AiResearch on February 2 at 10:00 a.m.

The aggregation is co-coached by Earl Soule and Charles George.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Hilde White, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BASKETBALL
Practice sessions at Green Meadows Playground, 431 E. 89th St., every Tues. night, 7 p.m.

BOWLING
Florence Rice, commissioner
Ladies Handicap League in progress at Torrance Bowl, Tues. 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Interested ladies please contact PA&S.

FLOWER CLUB
Mary Nelson, acting commissioner
Meet first and third Tues. of each month, NRC Clubhouse, 7:30 p.m.

GOLF CLUB
New series of golf lessons now available, Culver City Course, Tues., 7 p.m. For information, call PA&S, 2784.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse. New project: Drapery making.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP (MARINERS)
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Peggy Barber, representative
A continuation of the "Run-Off" for the District Speech Contest Thursday, Feb. 4, NRC Clubhouse, 5 p.m.

Bouquets To Ontario For Activities

By Joe Cribbs
President
Northrop Recreation Club

Bouquets are here and now in order for Ontario. We will exercise a prexy's prerogative and toss an orchid or two that way for continued increase in recreation participation at that base.

Joe Cribbs

Reports given at last week's NRC general meeting by Ontario NRC Representative Barry Smith and Bob Snider, Industrial Relations base representative, detailed the upward activity trend by all clubs. Messrs. Smith and Snider at the same time extended welcome to one and all from Northrop Field to attend Ontario club activities at any time.

Special Note—by the time this issue hits the stands, Ontario Toastmasters will have received their charter.

★ ★ ★

Space magazines, please copy —The Anaheim Telescope Club, Cliff McDaniel, commissioner, has 15 telescopes a-building. This Club has mushroomed into top prominence in the past three months. We have mentioned it before, and will say it again, that it sounds like a fascinating hobby. Biggest 'scope in the jigs is that belonging to George Webster—we all remember George as a Northrop assistant superintendent, Production, at the beginning of the Scorpion contract. George, whose hobby normally runs to antique fire-arms, is building himself a ten-incher.

★ ★ ★

Worthy Project Idea—the National Rifle Association is now sponsoring adult education classes for the training of firearms safety, we are advised by the State of California Fish and Game Department. This means that before too long there will be a number of qualified men available to teach firearms safety, with the emphasis on younger hunters—your boy and mine. California now has a law which requires all boys and girls under 16 years of age, to pass a state hunter safety course before getting their first hunting license. This law takes effect July 1, 1954. It was actively supported in the state legislature by all sportsmen.

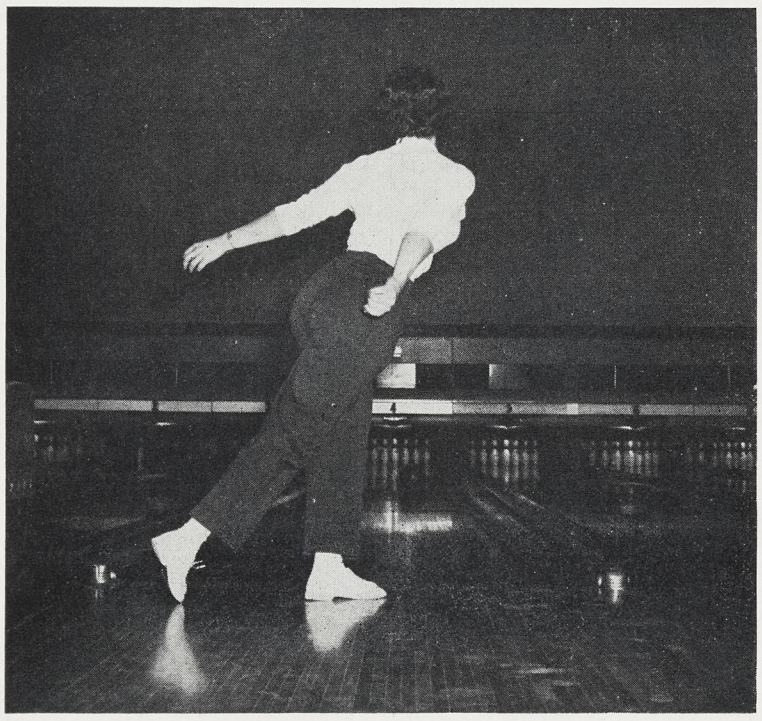
We would like to know if there are any Norcrafters who would like to have this course in firearms safety made available to their youngsters. Aside from safety the course also teaches sportsmanship, good farmer-sportsman relationship, and hunting techniques. It is expected that 40,000 boys in California will receive training this year. Let's hear from you. If there is a demand, we will have such training for Northrop Juniors.

THE Northrop Scene BY DAY AND NIGHT

Yule Celebrations at Patrick

NORTHROP-PATRICK GLEE CLUB was sponsor for Florida Norcrafters' 1953 Annual Christmas Ball. Among the more than 300 party-goers was this happy group, foreground, seated, facing: Mrs. H. J. Zimmer (hubby is in Analysis and Scheduling); Willie Christianson, Office of the Chief; Mrs. A. H. Anderson (hubby is staff assistant to base administrator); and Harry Hartl, Downrange. Dance was held in the ballroom of the Indian River Hotel in Rockledge, Florida. In keeping with season, room was decorated with holly, mistletoe, and gaily colored balloons. Dance was termed "best ever" by Patrick Norcrafters.

THE YULETIDE was further celebrated at Northrop Florida facility via a buffet luncheon, December 24, that officially launched the year-end holiday. Photo shows luncheon line forming to partake of Christmas baked ham. Chiefly responsible for the party's success was Jack Cushman, Industrial Relations supervisor, assisted by NRC Veep Bud McAlpine, Steve Roden, Peggy Willis, Zella Gaston, and Annie Shull, plus all department clerks. Over 325 Missile Norcrafters attended. Luncheon at Lady Aris Delicatessen, Melbourne.



HOPING for high score during recent NRC Christmas Bowling Tourney is Rocky Bender, Tool Fabrication. Rocky here casts "English" after strike-bound sphere.

"GUESS WHAT — ?" was winning team in December 27 NRC Christmas Bowling Tourney held at Hawthorne Bowl. Receiving NRC trophies from Eddie Truax of PA&S from left: George Rasmussen, guest; Harold Guess, Major Subcontracts; Eddie; Dory Guess, (Mrs. Harold); Al Arce, guest; and Florence Rice, Women's Bowling Comish, accepting trophy for Jeanne Bostwick, guest . . .

RED FEATHER SLOGAN WINNERS—Norcrafters, who recently won Southland honors in the Red Feather Slogan Contest, receive merchandise gifts. Ruth Harris and Burton M. Foster received a deep fat fryer (from Certified Grocers) and a man's suitcase (from North American Aviation) from Community Chest Industrial Press Representative Harry Althouse. Five additional Norcrafter slogan writers also received Savings Bonds presented by the Northrop Recreation Club.

Holiday Keg Winners

TOP BOWLERS in NRC Christmas Bowling Tourney, shown holding NRC trophies, presented by Eddie Truax, PA&S, are from left: Eddie, Roger Gard, Missile Lab., and Neal Elder, Purchasing—Men's Doubles; Wayne Chamberlin, Tabulating Finance—Men's Singles; Peggy Paulsen, Performance Reports, and Jim Garbett, Hours Control—Mixed Doubles. Not shown, Betty Rice, guest—Women's Singles; Marge Howsare, guest; Irene Langland, guest—Women's Doubles.

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, February 10, 1954

Be a Valentine--!
SUPPORT THE HEART FUND
(See page 2)

SPEAKER OF THE EVENING—General Oliver P. Echols is introduced to Management Club audience by club President Charles Bradford at Rodger Young Auditorium, Saturday evening, January 30. General Echols' address was in nature of report on company progress and plans in relation to national defense program. At right seated, are Cy Perkins, Materiel, M-C program chairman; and Kenneth P. Bowen, Northrop vice-president, Manufacturing. Nominations for Management Club officers for 1954 followed General's address.

JET FLIGHT BASE BUILDINGS READY

CLIMAX TO THREE-YEAR EFFORT

Buildings at Palmdale—subject of the Northrop News pictorial insert last issue — were completed last week, an announcement from Vice-president Kenneth P. Bowen has stated.

Primary function of the Northrop installation there will be to flight test Scorpion F-89D all-weather interceptors and deliver them to the Air Force.

Completion of the buildings and the operational plan climaxes almost three years of planning and work on the 250,000-square-foot facility by Industrial and Plant Engineering Norcrafters.

In accordance with the operational plan, initial Northrop operations will begin on a limited scale; by the end of March about 150 Norcrafters are scheduled to be at Palmdale.

The Northrop facility will reach full operation sometime in mid-1954 with the completion of runway and other facilities at the huge Air Force jet test cen-

(Continued on Page 2)

Northrop Management Club Nominates Officers for 1954 at Rodger Young

Northrop Management Club turned out in record number Saturday night, January 30, for Annual Management Meeting and nomination of officers for 1954.

Meeting, held at the Rodger Young Auditorium, was highlighted by address by General Oliver P. Echols, in which he outlined the company's industrial position relative to the overall national defense program.

Management Committee members in attendance were:

Colonel L. F. Harman — director, Management Control, and assistant to the president.

John B. Clark — director, Industrial Relations.

Al Morgan — director, Customer Relations, and assistant secretary.

W. F. Ballhaus — chief engineer.

Ed Schmued — vice president, Engineering.

Roland Pagen — vice president of Finance and treasurer.

Kenneth P. Bowen—vice president, Manufacturing and Materiel.

John R. Alison—vice president. Administration.

Management Committee members not in attendance due to company business trips were:

John Myers — vice president, Customer Relations.

George Gore — secretary, corporation counsel.

Nominations for 1954 officers were held at the conclusion of General Echols' talk. Ballots for membership votes will be issued by Management Club Election Committee Chairman D. Y. Cole, Systems Administration, within the next ten days. Candidates listed:

PRESIDENT —
Dick Aggen, Jack Akin, Bud Burns, Chuck Fleming, George Gillett, Stan Huston, Andy Koren, Ken McBride, Cy Perkins, W. E. Peterson, Bill Schramm, Jim Scott (withdrawn), Scotty Smith.

VICE-PRESIDENT —
Howard Altman, Branch Cuenod, Ed Hickish, Jack Lind, Cy Perkins, Don Riley, Harvey Baker, Phil Smalley.

(Continued on Page 3)

The News Presents Four Articles on Communism

In answer to many reader requests, the News presents, with this issue, the first of a series of four articles on communism. (See page 2.)

The articles, written by Dr. John Robert Lechner, executive director of the Americanism Educational League, detail methods and policies employed within the communist ideology for discredit and overthrow of democratic forms of government. Articles are entitled "Public Enemy No. 1", "The Communist Conspiracy", "Insurrection", "Common Sense". Also included will be a code of behavior conclusion—"How Can I Help".

Dr. Lechner, eminent authority on world governments and a leader in the world fight against communism, is considered one of the top writers and lecturers on this subject.

The Americanism Educational League, of which Dr. Lechner is executive director, is one of the first organizations of its kind in America to combat subversive propaganda.

The News presents Dr. Lechner's work on communism in the form of a condensed version of the original. The complete work is entitled "Communism—What It Is", and is intended for distribution to colleges and churches in America for use as a text on the conflict between communism and Americanism.

The News communist articles will be printed in uniform length of two columns to facilitate clipping and binding, should readers want to keep them.

DR. LECHNER

Courtesy Equals Safety

TRANSPORTATION NORCRAFTERS who contributed to outstanding fleet safety record stand proudly by as Traffic Manager Bill Zuetell delivers 1952-53 National Safety Council plaque to Vice-president Kenneth P. Bowen. From left: Morgan Wing, Mike DiCurcio, Harry Harvey, Zuetell, Virgil Daughhetee, Bowen, Bob Bunds, Peggy Park, Carl Smith, Pearl Sims, Art Thrilkill, A. D. Dye, Bill Eaton, Clark Johnson, Bill Steen, and Link Hoen. Latter two represented supervision of Transportation department at meeting; Ken Selvidge (not shown) represented Safety. Peggy Park (see Northrop News, October 21, 1953) was commended earlier for 10-year, 350,000-mile record of accident-free driving. Story on page 2, this issue, reflects further efforts of department to maintain record, and to better it, if possible.

Public Enemy No. 1

BY DR. JOHN R. LECHNER, M.A., LL.D.

Communism, without a question, is the most imminent and serious threat to free government, free economy, and personal liberty in America. It is waging a vicious war against the established institutions of this country. Its strategy of conquest in America is the exact counterpart of the Soviet conspiracy in Europe and Asia: infiltration, disruption — then violent aggression.

Although many Americans still ridicule the idea of a communist insurrection in the United States, informed and unbiased observers are alarmed at the magnitude of the communist conspiracy and foresee wide-spread sabotage, unless the government completely immobilizes the Red structure.

A COMMUNIST

A communist is not necessarily a bushy-haired wild-eyed fanatic who shouts sedition from a soap box in a public square. He is more dangerous than one so easily identified because he is more insidious in his methods, more deceitful and dishonest. He may be a clever propagandist. He may deliberately create distrust by misrepresentation of facts; he may be the well-trained, cunning writer in motion pictures or television who injects his contagious propaganda into a dialogue to contaminate the thinking of unsuspecting viewers.

Or he may be the pious, scholarly exponent of a "perfect world", who tells his credulous listeners in the classroom or church that the "profit system" must be ended in America because it is incongruous with the Christian philosophy. He does not reveal the fact that such a system would obliterate free conduct, incentive to create, and social vitality.

STATE — ALL-SUPREME

The fundamental concept of communism is the "supremacy of the State". It holds that the "State" is all-supreme, and that no means should be spared to subject the will of the masses to it. Communism abrogates, therefore, every basic individual right which Americans recognize as inherent in our society. Under the communist philosophy of absolute statism, the right to speak, to act, to assemble, to write as free men, is denied. Under the rigid, totalitarian compulsion of the Soviet system a man must work where he is told, at what location, at which job, at what meager wages, and for how many hours. The penalty for demanding redress in face of a justifiable grievance, such as overwork or inadequate food allotment, may be cold-blooded liquidation.

Communism follows the pattern of all totalitarian systems in that it must employ ruthless police powers to impose the will of the state upon the masses. It cannot function unless it is a government by MINORITY. At no time has membership in the Communist party exceeded 3% of the population. The total membership in the Soviet Union today is less than six million. Two-thirds of this number, forming the lower echelons of the party, are secure in their standing only to the degree in which they can placate their bosses, who are ever ready to start new purges to enhance their own powers. The exclusive political structure of this party membership at once belies the basic claim of communist leaders that the Soviet system is democratic, that it is a government by the workers.

POLICE STATE

Americans should know the historical truth that whenever a small minority seeks to impose its will upon the vast majority of any people, it must inevitably employ the sanction of FORCE. This is called a POLICE STATE, in which political compulsion and ruthless liquidation of independent or opposing groups or individuals is the practice.

It is difficult for us to conceive the tragic horrors of a police state in action. No books can describe adequately the terror which strikes at the hearts of the people under the domination of the Kremlin when they hear a knock on the door by the MVD at some early hour in the morning!

The cardinal principle of the communist conspiracy is to achieve its end of world conquest by any means, no matter how base or inhuman. It is a mark of distinction within the party to cheat, lie, steal, betray and murder, if such acts aid the communist cause. In no other way can historians explain the deliberate starvation of more than five million peasants and kulaks during the purge of 1932-33, and the liquidation or Siberian enslavement of millions since. Today, nearly fifteen million people from the USSR and from the satellite countries are in the political prisons or slave labor camps in the frozen wastes of Siberia, dying by the thousands each month from starvation and exposure, and replenished by additional thousands each month as a result of continual purgings. More than fifty thousand priests and clergymen have been liquidated during the last 35 years. Out of fifty-one thousand Russian Orthodox churches in 1918, only a handful remain, and these are used for propaganda purposes, for the most part.

CONSPIRACY

Bluntly speaking, the communist conspiracy in every nation it has captured is a racket in which a small minority of political racketeers have used the army and the police to steal from the masses. The philosophy of communism has resulted in the establishment of the most ruthless class system in the world, in which the lives of the people are worthless except as they serve the ambitions and the selfish desires of a privileged minority.

In order to attract Americans to the crass, materialistic philosophy of communism, expert communist psychologists have deliberately exploited the term "democracy". Thomas Jefferson, whose picture is often hung alongside those of Lenin and Stalin, would turn in his grave if he knew that the historic American term was now being applied by communists to a system of enslavement, oppression and terror.

(Next Issue—"The Communist Conspiracy"

Clean-up Campaign Champions

LATEST GOOD HOUSEKEEPING champions in Factory division are Norcrafters in Advanced Fabrication and Assembly (5520), Plant Three. Supervision of department is shown as department was presented with poster emblematic of December crown. From left: Alex Weglin; L. G. Maurer, nights; Frank Brannon, general foreman, Advanced Production, nights; Gary Hard, chairman, Good Housekeeping Award Committee; H. A. Keehart, nights; W. L. Covington, general foreman; J. W. Thacker; and Rex Thornhill, assistant superintendent, Advanced Production. Runners-up, as sectional winners, were Departments 5544, 5445, 5620. January winners were being chosen at press time.

Heart Fund Service by PA&S Folk

Facilities of Personnel Activities and Services have been made available to assist personnel in supporting the Los Angeles County Heart Association campaign for funds for 1954, as the result of many requests made by Norcrafters.

Norcrafters are asked to look for the "Big Heart" to be on display at strategic locations in Hawthorne and nearby Los Angeles County Northrop facilities.

During the County drive to help stamp out this number one killer in the nation, pledge cards will be available at PA&S offices.

The Heart Association will bill to the home for pledged amounts.

If Norcrafters should wish to make cash donations at PA&S offices, they may do so. PA&S will forward funds collected to Heart Association headquarters in the contributor's name.

The County campaign is now under way, and continues until February 28.

Palmdale

(Continued from Page 1)

ter. Peak Norcrafter employment, the operational plan provides, will be reached in 1955.

Buildings include a three-story main hangar that measures 550 by 340 feet; a painting and stripping facility; and four smaller structures. In the main hangar are three stories of office space and a large air-conditioned radar bench test section.

The building construction and the preparation of operational plans have been closely directed by Industrial and Plant Engineering Norcrafters.

Base administrator of the Northrop facility will be Tom McCracken, whose appointment to the position was announced in the News on December 2, 1953.

Northrop Truck Drivers Begin Training Program

First of 25 Northrop Transportation department truck drivers last week began a seven-session training course which is intended to become the nucleus of a continuing program in the department.

The classes, which are held at Washington High School under the auspices of the Board of Education, are believed to be the first of their kind in the area.

Instructors are outstanding authorities from the Highway Patrol, the Los Angeles Police Department, Interstate Commerce Commission, Department of Motor Vehicles, and commercial trucking firms.

The on-the-job training, Transportation Norcrafters state, is aimed also at maintaining the outstanding safety record hung up by Northrop drivers last year, when they won the Greater Los Angeles Chapter Fleet Safety Award in National Safety Council competition.

First five sessions of the course —or 20 hours—will consist of lectures and discussions regarding highway regulations, legal responsibilities, safety factors, and other theoretical work. Last two meetings of four hours each will be devoted to practical application of driving skill, including instruction in the handling of aircraft assemblies.

Arrangements for Norcrafter participation in the course were worked out by Industrial Training and Transportation representatives with the Air Force and with Board of Education personnel.

NORCRAFTERS ON NIGHTS ATTEND SECURITY CLASS

Maintenance of contractual obligations with the Air Force, and national and individual self-protection, are the main reasons for every Norcrafter's interest in security regulations, night shift personnel were advised last week, in a series of security lectures instituted by E. F. Burke, director of Plant Security and Protection, and presented by Ray Williams, Plant Security and Protection.

Williams addressed several groups of more than 50 Norcrafters each, who met in one-hour meetings in the Tooling building Conference Room "A". The program was arranged in cooperation with the Air Force and all divisions of the plant.

Recent changes in classification of material were discussed by Williams, along with the importance of cooperating with government regulations regarding handling of classified matter.

Explanation and definition of terms commonly used in discussion of security further clarified a number of questions posed by attending Norcrafters.

Northrop News

Vol. 12 Northrop Field, Hawthorne, Calif. No. 14

Published every other Wednesday by
INDUSTRIAL RELATIONS DIVISION, NORTHROP AIRCRAFT, INC.
JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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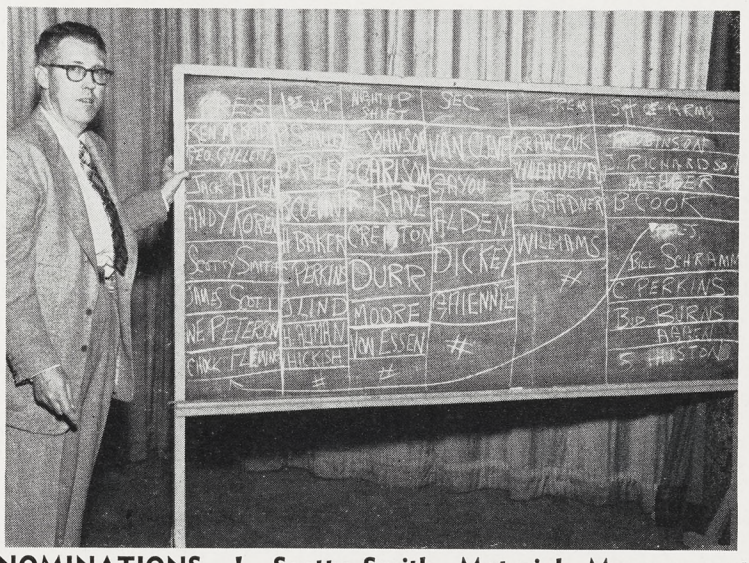
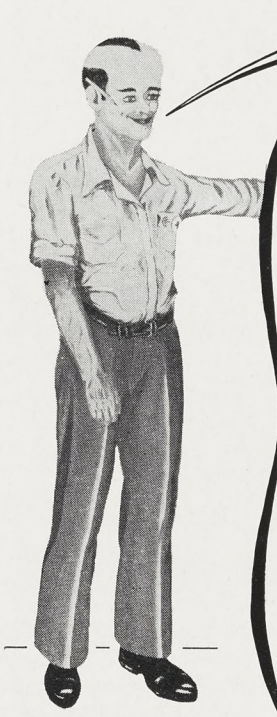
VALENTINE THEME—Materiel division dance to be held February 13 in VFW Hall, Gardena, receives support from three members of dance committee. From left, Randy Randall, Vernice Boynton, and Dolly Smith. Music will be provided by Glen Peters and his orchestra. All committee members have ducats (see story this page) or they may be purchased at door. "Hearts and flowers" is dance theme.

Nominations Closed!



NOMINATIONS—! Scotty Smith, Materiel, Management Club first vice-president, stands proudly by as photographer records blackboard carrying names of 41 Norcrafter supervisors nominated for 1954 MC office. Tremendous interest in club affairs is evidenced by 13 nominations for the office of president. Balloting next week. See story on page 1.



Mat Con says

A simple rule for preventive maintenance: treat all tools and machines with respect . . . they can be friends or enemies, depending upon your treatment of them.

A machine won't hurt a respectful friend.

Materiel to Theme Hop February 13

Hearts and flowers is the theme for the Valentine's Day dance to be held by Materiel Division personnel on February 13.

Dance will be held in the new Veterans of Foreign Wars hall, 1822 Market Street, Gardena, with music to be provided by Glen Peters and his orchestra. Hall will be decorated in Valentine's Day motif and dancing will start at 9:00 p.m.

Members of the dance committee are: Burnie Quinlan, chairman; Charlotte Bumker, Kathryn Bowers, Emma Petri, Bettye Downing, Randy Randall, Dee Carroll, Dory Guess, Cy Perkins, John Lowry, Jack Hebard, Jessie Van Horne, Carol Conroy, Carl Dunlap, Nina Shannon, Harry Anderson, Holly Duckworth, Dolly Smith, and Vernice Boynton.

Tickets will be $2.50 per couple and may be purchased from any dance committee member or ducats will also be available at the door on dance night.

SECRETARIES IN WASHINGTON HI BRUSH-UP CLASS

One hundred or more—46 per cent being Norcrafters—have enrolled in a Secretarial Training course running through eight classes, January 14 to March 18.

Held at North American Aviation recreation hall—39 per cent of class are from North American—from 7 to 9 p.m. on Thursdays, course is sponsored by Los Angeles City Schools' Adult Education and directed by Washington High School.

Nomination

(Continued from Page 1)

NIGHT-SHIFT VICE-PRESIDENT —

G. E. Carlsen, Elmer Creighton, Barbara Durr, Lloyd Johnson, Paul Von Essen, Bill Moore, Dick Kane.

SECRETARY —

Genevieve Alden, Jim Dickey, Bernard Gaiennie, Tony Gayou, Lou Van Cleve.

TREASURER —

Ray Gardner, Ed Krawczuk, Lewis Villanueva, Elise Williams.

SERGEANT AT ARMS —

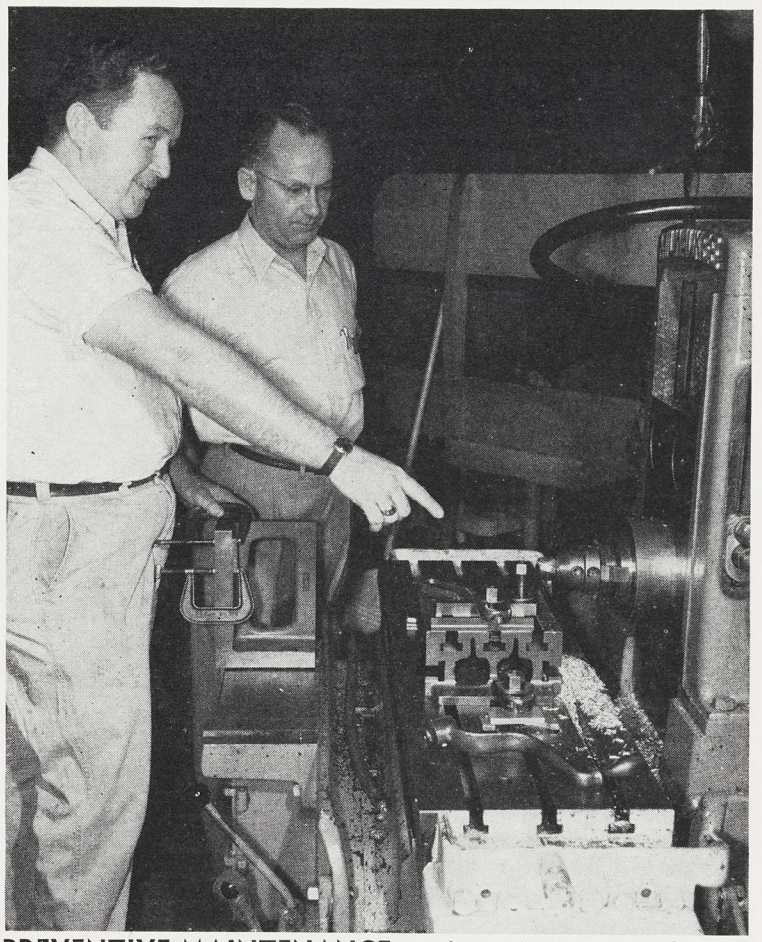
Bert Cook, Wendell Meader, John Richardson, Robbie Robinson.

Newly elected officers at Ontario, with balloting held January 29, are Louis Casale, supervisor, Liaison Engineering—vice-president; Robert Salisbury, department assistant, Methods Engineering — secretary - treasurer; Gerald Hutter, department assistant, Manufacturing Control—publicity.

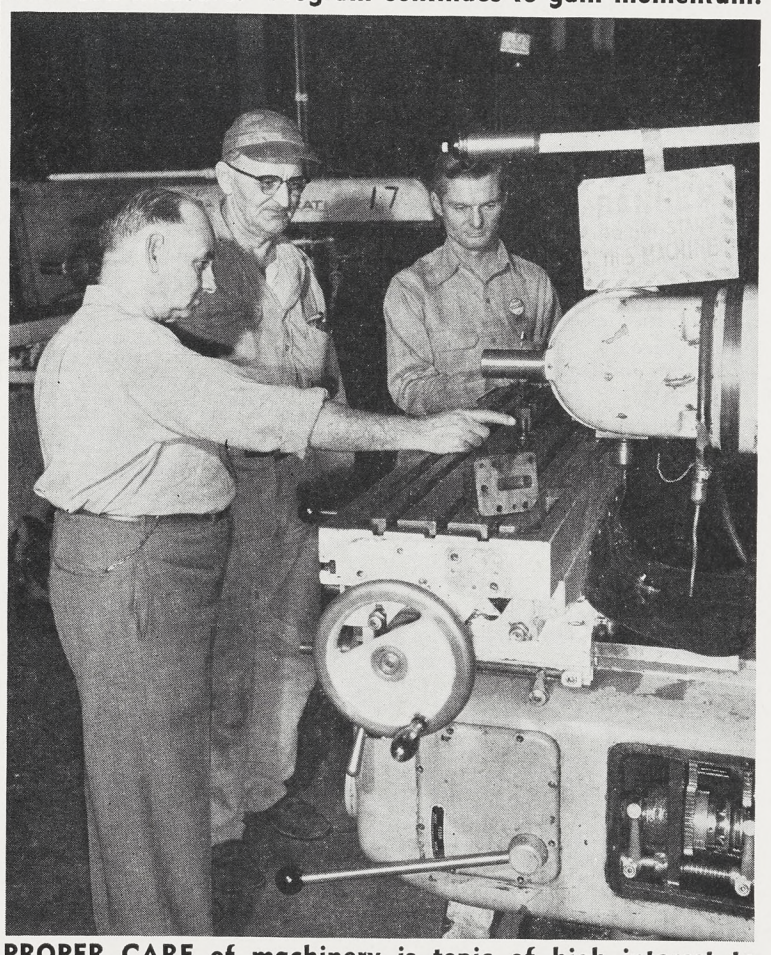
Anaheim elections for 1954, held Friday evening, February 5, brought into office Ken Pembroke as vice-president; Bill Armstrong as treasurer; Jack Wigmore as secretary; and Bill Kearney as sergeant-at-arms.

Florida elections will be held in March.

Mat Con Maintenance



PREVENTIVE MAINTENANCE, main topic in recent Safety-Conservation Committee meetings, is also topic of discussion for Paul Hoskins, Maintenance leadman, and Chris Besser, assistant foreman, Machine Shop. Both night shift Norcrafters agree that close observation of equipment, including the proverbial "stitch in time", is a truly worthy Mat Con measure. Program continues to gain momentum.



PROPER CARE of machinery is topic of high interest to Othello Lord, left, Plant Engineering Norcrafter, whose duties include inspection of new equipment. He is shown with Maintenance Norcrafters Tom Poulsom and Wayne Garrison. Lord was guest speaker at numerous S-C committee meetings, discussing preventive maintenance.

NRC WOMEN'S BASKETBALL SQUAD SEEKS NORCRAFTER YELL SUPPORT

Thirteen players make for a lucky season if plans and past weeks of practice by the NRC women's basketball team pay off.

The ladies have been showing up well through practice games over recent weeks. Meeting a fast Douglas Aircraft team, the Northrop hoopsters led with a five to six point margin throughout, then wrapped up the match.

Official season's opener, playing in the Los Angeles City League, was to be at Ardmore Playground last night, Tuesday.

All games will fall on Tuesdays at Ardmore, at 7:30 or 9:00 p.m., and the ladies welcome all Norcrafters talented for the rooting section.

The cagers, sporting brand new NRC uniforms—Forwards: Donna Avazian, Dolly Nichols, Doris Kaiser, Violet Nichols, Nancy Natalie, and Betty Talley playing center-forward. Guards: Reese Council, Eileen Ballard, Lucky Hallinan, Pat Crookston, Jeannie Thornton, Mary Yoho, and Irene Skovguard.

Drapes Shaped

SHINING EXAMPLES of work to be accomplished by members of NRC Interior Decorating Class in their new project —drapery making—are shown by, left; Donna Pratt, Facilities and Expenditures Control; Rita Ewart, Public Relations; Ruth Geller, Planning; and Barbara Pritzkat, Art Service. Free instruction will be given by Lee Larson, Barker Brothers.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 4)
VERMONT & CENTURY, Los Angeles. HARRY M. ROCHETTE (5585-89, Ext. 1381). (12-1)

(Zone 5)
CARSON & LAKEWOOD, Lakewood. JACK D. MATLOCK (5501-197, Ext. 2200), L.B. 5-6627. (12-1)

PLACENTIA & CENTER, Anaheim. Can take 5 riders. ORLEAN M. SWENSON (5501-351, Ext. 2200), KE. 5-9980. 12-1-5

(Zone 6)
STUDEBAKER & SPRING, Long Beach. JOE NEIGGEMANN (5353-64, Ext. 1575), L.B. 344-108. (12-1)

BROADWAY & MAIN, Gardena. HARVEY H. QUALLS (5524-308, Ext. 2209). 12-1-2

(Zone 9)
TORRANCE BLVD. & 101 HIGHWAY. (Interested in car pool), Redondo Beach. JOE MEYER (5353-39, Ext. 1575), FR. 2-0264. (12-1)

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 10)
MANHATTAN BEACH BLVD. & 22ND, Hermosa Beach. JAMES SIMS (5544-171, Ext. 2645), FR. 49082. 12-1-10

(Zone 11)
MAIN & MAPLE, El Segundo. Will pick up anyone between Main and Center on Maple or on Center between Maple and El Segundo Blvd. ERNA MAE SNIDER (5508-23, Ext. 2230 or 1463), El Segundo 1128-W. 12-1-11

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
WESTERN & WASHINGTON, Los Angeles. ROSCO STEWART (5165-80, Ext. 1821 or 1996). (12-3)

(Zone 5)
SOUTH & BELLFLOWER, Lakewood. A. H. MC CONNELL (5520-121, Ext. 1233), TO. 706-90. (12-3)

"Six was his point".

RIDES OFFERED

7:00 a.m. — 3:45 p.m.
(Zone 6)
WINTERSBURG & BOLSA CHICA AVES., Huntington Beach. E. G. NESS (7420-137, Ext. 2240), LE. 6-2987. (12-3)

(Zone 13)
LINCOLN & WILSHIRE, West Los Angeles. (Route: Lincoln to Imperial.) OLIVER PHILLIPS (7410-21, Ext. 501), AR. 8-5907. (12-3)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 3)
ROSEMEAD AVE. & FOOTHILL BLVD., Arcadia. WM. A. GUTHRIE (5113-60, Ext. 1342), CU. 5-1096. (13-1)

(Zone 10)
MANHATTAN BEACH BLVD. & HIGHLAND, Manhattan Beach. Can take two riders, anywhere between Manhattan Beach Blvd. & plant on Aviation, Hawthorne or Prairie. ROBERT A. SCHWARTZ)5126-64, Ext. 2369). 13-1-10

(Zone 13)
ROSCOE & SEPULVEDA. (Will drive to Ventura & Sepulveda. Interested in car pool), Van Nuys. IRENE BAKER (5930-47, Ext. 2498). (13-1)

SEPULVEDA & WASHINGTON or Sawtelle & Washington, Culver City. BOB GARDNER (5910-28, Ext. 587), EXbrook 7-1548. 13-1-13

VENTURA BLVD. & TOPANGA BLVD. (Via Ventura & Sepulveda, room for one), Woodland Hills. J. M. HERRINGTON (6620-2, Ext. 1519 or 2126). (13-1)

(Zone 14)
FLORENCE & CRENSHAW, Los Angeles. CHARLOTTE WOOLUMS (9320-21, Ext. 1681 or 1682), PL. 3-7484. (13-1)

LAUREL CANYON & MAGNOLIA BLVDS., North Hollywood. Would like to get in car pool. WM. S. COOK (3250-326, Ext. 2164), SUnset 1-9678. 13-1-4

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 4)
HWY 66 OR HWY 60-70, Pomona. R. H. KELEHER (8620-50, Ext. 2011). (13-3)

(Zone 8)
CRENSHAW & 147TH ST., Gardena. RAYMOND MAGIN (3530-147, Ext. 1927). 13-3-8

(Zone 10)
MANHATTAN & PIER AVE., Hermosa Beach. RALPH G. GAUT (3270-824, Ext. 1274), FR. 2-9880. (13-3)

(Zone 13)
VENTURA BLVD. & TOPANGA BLVD. (Via Ventura & Sepulveda, room for one), Woodland Hills. J. M. HERRINGTON (6620-2, Ext. 1519 or 2126). (13-3)

(Zone 14)
SANTA MONICA & VINE, Hollywood, 38. Desire car pool or riders from Hollywood vicinity, travel Crenshaw. PAUL T. NELSON (3510-192, Ext. 567), HO. 25025. 13-3-14

CRENSHAW BLVD. & RODEO ROAD, Los Angeles. KAROLL SHURTZ (3120-21, Ext. 1689, 1418), AXminister 2-3692. 13-3-4

7:30 a.m. — 5:15 p.m.
(Plants 1 and 2)

(Zone 2)
VERMONT & WASHINGTON. (Interested in car pool), Los Angeles. ROBERT C. MILLER (3232-566, Ext. 581). (14-1)

COLORADO & FAIR OAKS. (Interested in car pool), South Pasadena. DALE WITMER (3232-832, Ext. 581), SY. 9-7808. (14-1)

(Zone 4)
BEVERLY BLVD. & NORWALK. (Vicinity Washington Blvd. & Rosemead. Interested in car pool), Whittier. BURT BRACHER (3230-165, Ext. 581), OX. 5-6598. (14-1)

(Zone 10)
AVE. "D" & SOUTH IRENA, Redondo Beach. Interested in ride or car pool. W. F. MARTIN (3351-71, Ext. 778), FR. 51977. 14-1-10

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 1)
WESTERN & WILSHIRE, Los Angeles. FLOYD BARNES (5501-52, Ext. 2200), DU. 9-1121. (16-1)

(Zone 5)
CENTER & BELLFLOWER, Bellflower. EDWARD E. WEYRICK (5501-490, Ext. 2200). 16-1-5

3:45 p.m. — 12:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 12)
MAIN & BROOKS AVE., Venice. RAY KIEFT (5538-235, Ext. 525). 16-3-12

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)
VERMONT & BEVERLY BLVD. (Route: Beverly Blvd., Wilton, Arlington, Slauson, Crenshaw & Prairie), Los Angeles. MAX H. MASON (5503-466, Ext. 2681), NO. 1-7235. (18-1)

VERMONT & 29TH, Los Angeles. WM. C. DAVIDSON (5504-404, Ext. 1424), RE. 3-4536. 18-1-1

(Continued on Page 5)

SUB-CONTRACT AT SAWTELLE—Erby Mueller, patient at Veterans Administration Center, West Los Angeles, packages O-rings for Northrop spares orders use. Job was subcontracted to vets recently, and has become an admirable rehabilitation measure as well as good business procedure.

Sawtelle Veterans Help Package Parts for F-89

Among the sub-contractors who contribute to the manufacture of F-89 Scorpions is a small group of men to whom the job they are assigned means health as well as money.

Located in the Veterans Administration Center, West Los Angeles—Sawtelle, as it is familiarly known to Norcrafters—the new sub-contractors are patients in the Epilepsy Rehabilitation section. The job they do for us is, from our standpoint, a real Mat Con measure; from theirs, it is a bulwark to buttress oft-threatened health.

These vets are packaging O-rings, small parts often used as gaskets. There are thousands of O-rings, in varying sizes; and they must be packaged separately, distinctly marked for size and date of packaging, and sealed in weather-proof, transparent bags.

The task is one of those small, but necessary, ones which often escape the view of the public, for there is nothing glamorous about packaging O-rings.

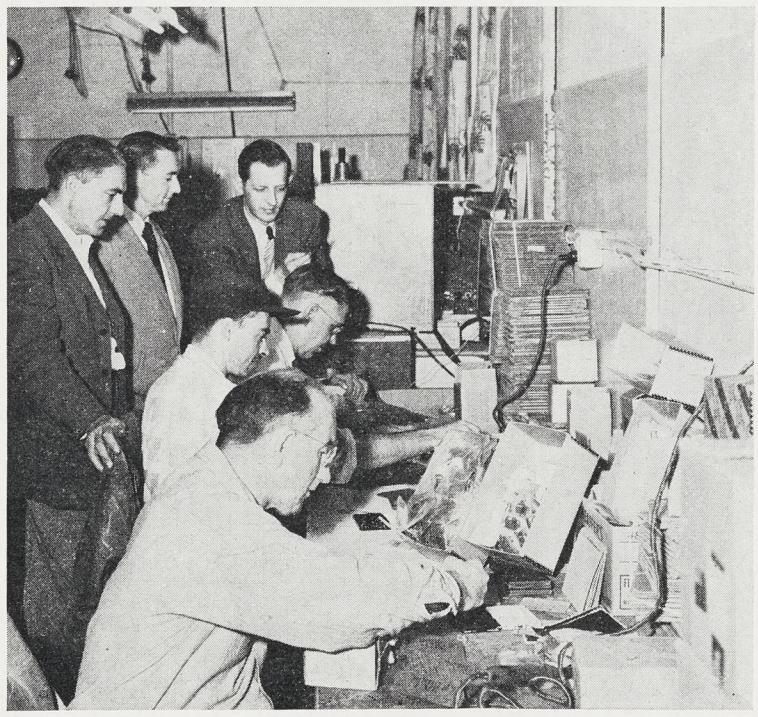
The Mat Con aspect of the operation becomes clear when it is pointed out that the vets entered bids with other vendors in competition, and were awarded the contract as low bidders. They save money, time and materials.

Initial contact with Northrop was made by Dr. Frank Risch, chief of the Epilepsy Rehabilitation Service at Sawtelle. Risch arranged an interview for W. T. Teeple, administrative officer of the service, and before long the vets were in business with Northrop. (Other aircraft manufacturers also participate in the rehabilitation program in similar ways).

Thus far, reports Don Riddle, coordinator of the program for the Materiel division, the work has been entirely satisfactory.

"At first," Don says, "the men were rather slow, as anyone would be when learning a brand-new job and trying to be painstaking about it. But soon they were more proficient, and now you ought to see them go!"

The program has satisfied everyone all the way around. The vets are happy, and, even more important, it gives them something to do. When they are active they are immeasurably more resistant to the attacks that characterize their illness.



PACKAGING OF O-RINGS is observed by Henry L. Potter, shop foreman of Epilepsy Rehabilitation Service, VA Center; Don Riddle, Supplies and Equipment Warehousing, Norcrafter who is program coordinator, and John Strasser, Shipping foreman. Working on rings, from foreground, are Erby Mueller, Paul Cadwell, and Alexander Emery.

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

SPANISH GUITAR, never used, stand included, $30, GEORGIA SIGURDSON, OR. 7-2340. A

FORD, 1940 coupe, 1949 Lincoln engine, $395, BILL FRANKUM, AX. 3-6156. A

BOXER PUP, fawn, AKC reg., ears cropped, has had permanent distemper shot, picked from litter for obedience training, sacrifice, $50. W. L. SHIFFER, RI. 8-2505. A

HOUSE, 2-bedroom, extra large rooms, 50′ x 150′ lot, $7950 full price, $1000 down, MAXCINE M. JONES. Reply in writing to Northrop News, Box 1421. A

MERCURY, 1947 club coupe, one owner only, motor recently overhauled, $450, J. H. WELLS, FR. 9-3397. A

BOAT, 14′ Birchcraft, Ballinger trailer, 10 h.p. Mercury Hurricane motor, A-1 condition, make offer, PL. 2-8528, after 5:00 p.m., B. GERMAIN. A

FREEZER, chest type, International Harvester, 8 cubic feet, cost $400, 18 months old, like new, must sell at once, moving, $225, PAT KILPATRICK, AX. 3-9440, evening only. A

BOAT, 24′, auxiliary sloop, Marconi rig, enclosed head, galley, sleeps two below, two in cockpit, excellent condition, $1450. I. W. RAYWORTH. ME. 4-6837. A

HOUSE, occupied 8 months, 3-bedroom, hardwood floors, shower, fenced back yard, lot 69′ x 100′, $9350 full price, $1500 down, BENJAMIN S. IWASON, FR. 5-3055. A

GAS HEATER, O'Keefe & Merritt, very good condition, $10; REFRIGERATOR, 6½ cubic foot Servel, across top freezing compartment, 6½ years old, gas company guaranteed, $98.50, RUSSELL W. FRENCH, OR. 7-5726. A

LUGGAGE TRAILER, 2-wheel box, spare wheel, tire and tube, 5′ bed, $60 cash, WM. A. HUGHES, TW. 0866 after 5:00 p.m. A

GAS LAWN MOWER, twin-cycle, good condition, 1½ years old, regular cost $85, will sell for $35, heavy duty type, E. J. SISTRUNK, ME. 4-8935. A

DUPLEX, 1½ blocks from ocean, garbage disposal, plumbed for automatic washer, outside recently painted, building 6 years old, income $140 per month, $10,950. PHIL VANOUSE, FR. 4-0717. A

TABLE, black wrought iron, glass top, like new, $20, J. W. BYRD, FR. 5-6215. A

PUPPIES — AKC registered Dachshund, $35 and up, H. R. McPHERSON. Reply in writing to Northrop News, Box 1424. A

BUICK, 1947 super, 4-door, radio and heater, good tires, $375, SHIRLYE E. HUNTLEY. Reply in writing to Northrop News, Box 1429. A

MOTOR BIKE, Whizzer, 1948 model, hasn't been used since 1950, recently overhauled, 100 miles to a gallon of gas, 40 miles per hour, $60; set of BARBELLS, weights to 100 lbs. $15. C. E. LONG, jr., OR. 2-7024 after 5 p.m. A

EXERCYCLE, $165, M. ORTH. Reply in writing to Northrop News, Box 1426. A

TRAILER, custom made, small tear-drop, sleeps two, fully equipped, like new, $250, PL. 6-5539, ROBERT BARR. A

BUICK, 1941 sedanette, radio, heater, good tires, new seat covers and brakes, engine recently overhauled, will accept terms, $150, BILL DALY, OS. 6-4814. A

BABY CRIBS, one small size and one six-year size with perfect mattress, price open for discussion. M. G. KING, OS. 5-1915. A

STATIONARY TUB, excellent condition, $7.50, G. R. BULLOCK, FR. 5-4156. A

RIFLE, Winchester 22K Hornet, Weaver K10 scope, shells and reloading accessories, excellent condition, $100, PAUL H. CORDER, FR. 9-1993. A

BABY BUGGY, Welch, $13; convertible CAR SEAT or car-bed, $5; wooden KITCHEN TABLE and 4 chairs, $7; aluminum baby bottle STERILIZER, $2.50, DON L. KIRKSEY, ME. 4-2280. A

HOUSE, 3-bedrooms and den, 1400 square feet, double attached garage, fireplace, dishwasher, disposal, bath and half, lot 50′ x 150′, in Manhattan Beach, off Aviation Blvd., has $8000 FHA loan, small second considered, $12,000, FR. 2-8860. A

BAND SAW, Craftsman, nearly new, $35, H. DAWSON, FR. 5-3894. A

PONTIAC, 1938 4-door sedan, runs fine, $50 or make offer, C. K. BEAGLE, PL. 1-3557. A

FOR SALE

OUTBOARD MOTOR, 1947 3 1/3 h.p. Evinrude, $40, V. E. BUCHER, OS. 6-4255. A

OVERCOATS, size 42-44, one navy blue and one oxford grav, first quality, all wool, $12.50 each, B. C. BARTON, AR. 7-1539. A

ELECTRIC SHAVER, Schick; oak HIGH CHAIR; both good condition, $4 each, B. BRADY, FR. 4-0697. A

BUICK, 1950 sedan, Dynaflow, radio, underseat heater, directional lights, perfect condition, call evenings or weekends, $150 cash and take over payments, C. BROUSSEAU, FR. 4-6131. A

ELECTRIC SHAVER, Gillette, 2 months old, used 3 times, cost $24, $15, G. R. BULLOCK, FR. 5-4156. A

FLOOR LAMPS, $2 and $3, J. E. BUTLER, OR. 7-4343. A

SKIN DIVE rubber suit — ankle to neck — two piece, $20, TOM CULBRETH. Reply in writing to Northrop News, Box 1401. A

CAMERA, Polaroid Land, with accessories, tripod and compartment case, like new, 40 per cent off list price; apartment size electric REFRIGERATOR, recent overhaul, $30, AGNES DAVIS, OS. 5-4505. A

CROSLEY, 1947 2-door sedan, good condition, dark blue, $125, FR. 5-4258, D. M. DUTTON. A

CHEVROLET, 1936 2-door sedan, excellent running condition, highest bid over $50, cash needed; BICYCLE, boy's, like new, balloon tires, 2 carrier baskets, spotlight and new brake, $20, CHANNING ELLIOTT, PL. 4-6210. A

TRANSMISSION for 1939 or '40 Lincoln Zephyr, complete, make offer; SCOOTER, 1947 Cushman, sidecar attached, $100 or reasonable offer; BOAT HULL, 24′ Chris-Craft design, 2-years old, moving, necessary to sell, sacrifice at $875, B. J. FITZGERALD. Reply in writing to Northrop News, Box 1402. A

WIRE RECORDER, used, Webster-Chicago; good condition; complete with mike, $50. RALPH G. GAUT, FR. 29880. A

FISHING EQUIPMENT—2 salt water fishing rods and reels with 150 yds. nylon each; tackle box included, one rod—Fiberglas, one split bamboo, $25 for all. VINCENT M. GEIGER, DA. 6-3386 A

LA SALLE 1938 4-door sedan, $30, full price. MELVIN GORDON. Reply in writing to Northrop News, Box 1403. A

PONTIAC 1950 (6) 4-door sedan; radio, heater, new seat covers, clean, low mileage, $1000. J. D. GROVE, FRontier 25997. A

TV, 10" blonde, serviced and new picture tube, $55; Model A pickup TRUCK, $70; 2 doe RABBITS, $6; 2-wheel metal TRAILER, $25; CHICKEN PEN, 22-hole with Dewdrop water system, $15. FR. 24474. A

REFRIGERATOR, Servel gas, good condition, 12 years old, $50. H. HUDSON, OR. 1-2930. A

ROOFING—7 rolls, 65 lb. weight, mica surfaced, $1.50 roll. J. M. HERRINGTON. Reply in writing to Northrop News, Box 1405. A

MERCURY '53 station wagon, radio & heater, overdrive, twin pipes, wire wheels, whitewall tires, $2785. D. L. HICKS, Long Beach 394976. A

BOAT AND TRAILER, 10′ inboard, with 2½ h.p. Lawson engine; complete $75; GAS ENGINE, Briggs Stratton, $45. S. B. HICKS, OS. 6-1471. A

GOLF CLUBS, eight irons, Robert Jones, jr., full bag, excellent condition. Call L.B. 847-81 between 6:00-10:00 p.m. $30. G. N. JOHNSON. A

HOUSE, 2-bedroom, one year old, garbage disposal, water softener, redwood fence. $2000 down. LON O. AMES, OSborne 6-4647. A

PHONOGRAPH RECORDS, approximately 20 long playing (33 1/3 rpm), used condition, classical music. J. M. CORCORAN, FR. 5-4049. A

DINING ROOM SET, buffet, table and 6 chairs, $140. Monroe Circulating GAS HEATER, $38.50; 9′x11′5" RUG, $12. LOUIS A. KLIMAS, OSborne 6-4197. A

VACUUM CLEANER, like new, Kirby, complete with all attachments and floor polisher, $55. ROBERTA LEE, OS. 6-0913.

FOR SALE

TRAILER, 2-wheel utility, nearly new, 4′x6′ metal box, removable oak rack, spare tire, trailer hitch, and safety chain, $40. ROY KITTELSON, ORchard 2-1882. A

HOUSE—G.I. resale, 2-bedroom stucco, attached garage, 5 years old, $2500 down payment. Price $10,200. M. W. LEMONS, PLymouth 5-5829. A

FORD, 1949 tudor, custom (8), radio, heater, overdrive, like new throughout, original owner, 34,000 actual miles, 30-day unconditional guarantee. Will trade or finance, $895. RUSS LE VESQUE, EX. 7-3004. A

GAS RANGE, high oven, four burners and warmer, $15. JIM MOORE, AXminister 2-3055. A

INNER-SPRING MATTRESS, single, with box spring, detachable legs and casters, for converting to bed; never used, complete, $62.50. PLymouth 5-6043 days. H. A. MUSSENDEN. A

PONTIAC '49 2-door sedan, radio and heater, A-1 condition, $825. FERD O'DOM, TW. 2750. A

WASHING MACHINE, wringer type, white, porcelain, about 10-12 years old, used very little, looks like new, $30. SIDNEY R. OLDIS, AX. 3-4449. A

CHEVROLET, 1941 Special deluxe 4-door sedan, original upholstery, mechanically very good, new paint, radio and heater, $195; TRAILER, 2-wheel box with spare tire and wheel, good condition, $25. DON PARKER, OSborne 53273. A

MERCURY, 1951 4-door Mercomatic, radio, engine in excellent condition, take up payments plus highest offer. RUSSELL PELTZ, WY. 8790. A

CHEVROLET, '49 4-door sedan, radio, heater, '54 license, perfect mechanical condition. $700. S. L. PETERSON, OR. 86319. A

DINING ROOM SET, 8-piece, mahogany finish, good condition, $70. PAUL J. ROGERS, PLymouth 57310. A

SHORT COAT, silver blue muskrat, with matching hat, size 12, cost $375; like new; worn very little; will take $125. NANCY RUBY. Reply in writing to Northrop News, Box 1413. A

TIRES—Three 6.50x16 six-ply, Grade 1 tires, like new, original cost $37.50 each, $75 for all three, $28 each. ENGELBERT H. RUSA, OSborne 5-2852. A

WASHING MACHINE, Montgomery Ward, overhauled, good as new, $25. HARLAN RUTTER, EXbrook 6-7227. A

FORD, '48 sedan (6), paint, upholstery, radio good; runs fine, $375. J. H. SHANKLAND, FR. 25239. A

SNARE DRUM with stand and brushes, like new, $35; splash cymbal with stand, $7; complete $42. RAY SIGLER, NE. 1-3128. A

HOUSE, income investment, 5-year lease at $85 per month; 2-bedroom, bargain to settle estate; terms or cash dictates. RUBY B. MacDONALD. Reply in writing to Northrop News, Box 1411. A

GOLF CLUBS and BAG, 3 woods, 8 irons, 9 new balls, pipe organ bag, $39; PISTOL, .22 caliber, Hi-Standard Model B, holster and 400 rounds included, $35. BOB LIEBER, OR. 60048. A

CHEST of drawers, genuine cherry maple, practically new, $40, or make offer within reasonable range. LUCY L. LEWANDOWSKI, AX. 2-0582. A

LAUNDRY TUB, large metal porcelain, $8. I. C. STOTESBURY, FR. 46076. A

PLYMOUTH station wagon, 1947, make offer. DOROTHY SKELTON, PL. 4-4027. A

AUSTIN A-40 1952 4-door sedan, best mechanical condition, gets 32 MPG around town; can be financed if necessary, $850. R. E. SWEARINGER, HO. 2-5044. A

HOUSE, 2-bedroom stucco, clean, fenced yard, disposal; will take $500 down. $7800. Call TWinooks 8889 before 5:30 p.m. W. VON PRILLWITZ. A

LAND, choice Apple Valley residential acre, approximately 1 mile from Inn on the Estate Road. Best offer over $3450. M. R. THOMPSON, ORchard 7-0797. A

CADILLAC, 1941 5-passenger touring car, has had excellent care, original paint, radio, whitewall tires, fine running condition. Will sacrifice for $400 cash. J. D. WILLSON, ARizona 35655. A

ELECTRIC RANGE, Sears, completely automatic, large oven with window, warming oven, deep well, 7 speeds. Reasonable. HERBERT W. WILSON. Reply in writing to Northrop News, Box 1416. A

ADDING MACHINE, small counter type Victor, 9 column, $75. L. A. WYNANTS. Reply in writing to Northrop News, Box 1417. A

CHEVROLET, 1940 2-door, rebuilt motor, 1954 license plates, $105. STEPHEN S. YSLAS, OS. 51509. A

AQUARIUM 9 gallon, and tropical fish, good condition, GERTRUDE SOLIE, VE. 9-6069. A

WHEEL CHAIR, arthritic, like new, sacrifice, FRANK FEINGERTS, VE. 9-8834. A

GRAFLEX CAMERA, single lens reflex, 3¼"x4¼", Bausch and Lomb Tessar f.4.5 lens, 1/10 to 1/1000 shutter speeds; perfect for child portraiture; double cut-film holder and roll-film holder. Best offer over $40. A. W. JUDSON, CRestview 6-1745. A

ICE SKATES, women's figure skates, size 7½, $5, HELEN SWIFT, OS. 6-6631. A

FOR SALE

GAS STOVE, Modern Maid, automatic kitchen, like new, $100; 6 cubic foot Crosley Shelvador REFRIGERATOR, $50; matched LIVING ROOM SET, divan and chair, $50; priced to sell quick, WILLARD A. WADDELL. Reply in writing to Northrop News, Box 1432. A

RESIDENTIAL LOT 60′ x 126′ in Palos Verdes estates, unobstructed view, all utilities in, few blocks from Plaza, full price $3500, terms — $1200 down, balance at $50 per month or more including interest, will discount for cash, WILLIAM ZEBROWSKI. Reply in writing to Northrop News, Box 1431. A

DAVENPORT, large green, modern, best offer over $100, FR. 4-0330, C. R. HARBEISON. A

VACUUM CLEANER, Kirby, like new, all attachments included, $125, J. O. DUBONNETH, DU. 8-2038. A

SKIS, 7′3" laminate constructed, equipped with safety bindings; size 9 ski mittens; ski poles, $20, D. V. BUSENBURG, FR. 5-2756. A

MOTORCYCLE, 1952 B.S.A. Golden Flash, full fenders, sport headlight, good condition, mileage 8000, $500 cash or terms, CHAS. L. BRENNAN. Reply in writing to Northrop News, Box 1430. A

LAWNMOWER, electric, almost new, with 100′ heavy cord, $50, C. L. PENNINGTON, OS. 6-0914. A

CARRIER FREEZER, 22½ cubic feet, upright model, 700 lb. food capacity, aluminum interior, sells for $714 new, will sacrifice for $445, excellent condition, only 15 months old, MILDRED R. DRISCOLL, OR. 1-0025. A

ONE ACRE level lot in Fontana, irrigation water and electricity, you name the terms, $1495, WOODY, AX. 1-0489 Monday — Thursday evenings only. A

TRAILER, 4′ x 6′ two-wheel utility, heavy duty, make offer, ELLIOTT NOHR, FA. 8-6329. A

HOUSE, 2-bedroom, 3 years old, GI resale, 4% loan, large beautiful fenced yard, 1 block to grade school, 3 blocks to bus, Westchester area. OR. 2-3141. A

PLYMOUTH, '53 club sedan with overdrive. Sell $900 equity for $200. WALLY HENRICH, FRontier 45412. A

MOTORCYCLE—1941 Harley "61", new electrical system, paint and tires, 2500 miles on rebuilt motor, $175; Ford, '29 "A", runs good, $50. E. E. MILLER, OS. 5-3478. A

PORTABLE DARK ROOM and miscellaneous PHOTO EQUIPMENT. L. A. WYANTS. Reply in writing to Northrop News, Box 1435. A

AIRPLANE—Fairchild 24, newly majored 145 Warner, fully equipped, licensed thru November '54. See at Torrance Municipal and call FR. 5-1562, $1750 cash. D. H. HUSS, FR. 5-1562. A

CHEVROLET, 1949 convertible, all extras, hi-torque engine, new seat covers, insurance paid until December 1954, take over payments. E. M. LEWIS, NE. 58496 (neighbor's). A

WANTED TO BUY

MOTORCYCLE, must be cheap, age and condition secondary; all cash or will trade 1937 Plymouth. L. C. HULBERT. Reply in writing to Northrop News, Box 1406. B

CAR RADIO and aerial for 1950 Mercury. HANK SOLAK, NE. 14122. B

RELOADING EQUIPMENT for 3006 and other calibers. J. D. YOUNG, FRontier 9-2710 after 5:00 p.m. B

PIANO ACCORDION, small, fair condition, must be reasonable. M. ORTH. Reply in writing to Northrop News, Box 1425. B

FURNITURE—Gas stove, bedroom, living and dining room, sewing machine, 2-door Frigidaire, washer and drier; could use Shopsmith. L. A. WYNANTS. Reply in writing to Northrop News, Box 1415. B

TV SET—An elderly couple wish to purchase a table model 12", 14" or 16" television set in good condition; preferably from a private party; reasonably priced. RUDY PISTEY. Reply in writing to Northrop News, Box 1412. B

HOUSE TRAILER, 14′, used, factory made. Call OR. 2-7686, R. P. LUTZWICH. B

PLYMOUTH Suburban Sedan, '49 or '50. MAX MARCEL, OS. 5-2885. Call days only. B

WOOD LATHE or joiner and jig saw. M. KRAVETS, TO. 4-5554. B

FORD station wagon or 4-wheel drive Willys. Cash for '49, '50 or '51. T. A. HARRINGTON. Reply in writing to Northrop News, Box 1433. B

FOR TRADE

DODGE, 1953 ½-ton pickup, low mileage, heater, deluxe cab; will trade for good used car. PAUL J. TELLES, Jr. Reply in writing to Northrop News, Box 1414. C

WASHING MACHINE, Zenith, used very little, perfect condition; trade for 16" TV or larger, good working order. GEORGE GRANDSTAFF. Reply in writing to Northrop News, Box 1427. C

HUDSON 1953 Super Wasp, only 6000 miles, loaded, dual-range, Hydramatic, twin-horsepower, backup lights, radio, heater. Will take 1946 or beyond for my equity. W. T. LOOMIS. Reply in writing to Northrop News, Box 1409. C

FOR TRADE

FORD Consul, 1952 4-door sedan, very clean, 18,000 miles, 20 small payments of $37.76 per month left. Will trade my equity of over $600 for a clean 1941 Chevrolet, Ford or Plymouth 2-door sedan or station wagon. J. R. HAUPENTHAL, DI. 20313. C

TRAILER, good 2-wheel, size 2x4x6; will trade for good transportation car. ROGER DYE, LA. 0736. C

CHINCHILLA, NCBA registered; will trade for good piano, major appliance or real estate, attractive offer. AR. 35792, WILSON S. GAREY. C

HOUSE TRAILER—Will trade 16′ Sportsman Fleetwood trailer, practically new, value approximately $1800, for equity in G.I. 2 or 3-bedroom home; location must be desirable. For additional information please call R. O. WENGER, TW. 8257. C

RENTALS OFFERED

APARTMENT, unfurnished 1-bedroom deluxe, TV plug, disposal, Laundromat, adults only, $85 per month. Call OR. 1-0856 or OR. 1-8161, O. PHILLIPS. E

APARTMENTS—New deluxe unfurnished one and two-bedroom apartments with garage and laundry room, adults only, no pets, Montebello, $65 and up. J. R. POTZ, PL. 2-0982. E

COTTAGE, one-bedroom, furnished, in beautiful Rancho Green Valley, just 30 minutes from Palmdale, $50 month. GEORGE B. NORRIS, OSborne 6-5198. E

HOUSE, unfurnished 2-bedroom, stucco, dual thermostatic furnace, garage, $80. K. M. JOHNSON, PL. 55137. E

APARTMENT, living room, kitchen, bath, completely furnished with utilities included, near Imperial and Hawthorne Blvd., $13 per week. RUSS LE VESQUE, EX. 7-3004. E

APARTMENT, 2-bedroom, nearly new, unfurnished, $75 month; bachelor's SINGLE APARTMENT, unfurnished, nearly new, $37.50 month. JOHN TOURINO. Reply in writing to Northrop News, Box 1422. E

APARTMENT, unfurnished, utilities paid, good care guaranteed, will rent to elderly lady for less than $25. MRS. C. H. WINGO. Reply in writing to Northrop News, Box 1423. E

BOARD AND ROOM, private entrance, ten minutes from Northrop; must like children; would like gentleman who works days; reasonable rent to right party. RICHARD E. HOLDER. Reply in writing to Northrop News, Box 1404. E

ROOM in nice home, nice neighborhood, some privileges. Phone PL. 46210 any time of day, $10 week. CHANNING ELLIOTT. E

HOUSE—$125 on lease, 3 bedrooms, stucco, unfurnished, 2 blocks east of Douglas El Segundo; children o.k. EX. 37544, DAVID ENJEM. E

ROOMS for men, access to rest of house, linen service included, close to Northrop, $10 per week. JAMES C. BRANDOW, OR. 8-6578. E

APARTMENT, small, furnished, utilities paid, suitable for one, Hawthorne area, $50 month. A. DAVIS, OS. 5-4505. E

APARTMENTS, new, deluxe 1-bedroom, unfurnished; unusually large rooms, disposals and washing machines, near bus service, North Inglewood; $75 and $85 per month. C. B. SPENCER, OR. 23169. E

ROOM for man, private bedroom, share rest of house with two others, near Northrop. Call AL YEAGLE, OS. 5-6007 after 5 p.m. E

HOUSE, 2-bedroom unfurnished, Lawndale area; children o.k. $65 per month. RITA HARRIS, FRontier 4-4941. E

RENTALS WANTED

APARTMENT or small HOUSE, one or two-bedroom, unfurnished or partly furnished, Hawthorne or Inglewood area, $50 or under. ROBERTA LEE, OS. 6-0913.

HOUSE—Vet, just discharged, one child 18 months, need furnished or unfurnished 2-bedroom home, low rental. AX. 3-1556, M. S. JOHNSON. F

HOUSE TRAILER, with or without option to buy. Must be able to accommodate wife and 3 children. FRANK INDELICATO. Reply in writing to Northrop News, Box 1407. F

HOUSE, 3-bedroom unfurnished. TW. 9789. F

CHILD CARE OFFERED

CHILD CARE—Week day evenings, from 4:30 on, by responsible adult. ROBERTA LEE, OS. 6-0913. G

CHILD CARE—Prefer to take care of children in their own home but would have to have transportation to and from. 50c per hour for one child, 12½c per hour each additional child. MRS. D. MARLIN, OS. 63014. G

CHILD CARE—Children up to 4 years in my home, 7 years nursery school experience, Compton. ALICE TENNYSON, NE. 8-4757. G

CHILD CARE—Sunrise Day Nursery, licensed child care, ages two to twelve years, hot lunches, large fenced play yard, plenty of play equipment, fully equipped play room in house, TV, close to all aircraft plants. For further information call OS. 6-1786. G

(Continued on Page 6)

GOING MY WAY

(Continued from Page 4)

RIDES OFFERED

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 2)
WASHINGTON & MAIN, Los Angeles 11, ALBA POMPOSA (5502-270, Ex. 2741), PR. 9649. 18-1-2

(Zone 10)
DIAMOND & PACIFIC COAST HWY., Redondo Beach. GILBERT L. LUCAS (5504-607, Ext. 1808), FR. 9-3330. (18-1)

(Zone 13)
SLAUSON & BRADDOCK, Culver City. ROBERT WILLIAM ABLES (5544-218, Ext. 2645). (18-1)

MANCHESTER & OAK. (Will modify route to accommodate), Inglewood. TOM HAMMOND (5585-678, Ext. 1381), OR. 7-1241 between 11 & 12 a.m. (18-1)

LA BREA & MANCHESTER, Inglewood. CHARLES V. HARRISON (5586-496, Ext. 483), OR. 71241. 18-1-13

SEPULVEDA & JEFFERSON, Culver City. Jefferson to Sepulveda, right on 80th to Anza to 120th. GERTRUDE SOLE (5507-229, Ext. 526-564), VE. 9-6069. 18-1-13

(Zone 14)
FAIRFAX & SANTA MONICA BLVD., Hollywood. JOHN H. HEINE (5586-455, Ext. 1973), HO. 5-0870. (18-1)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 4)
FLORENCE & ORR & DAY, Norwalk. M. KREWETS (5502-264, Ext. 2741), TO. 4-5554. (8-3)

(Zone 8)
CRENSHAW & 190TH, Torrance. JERRY J. FRASER (5621-424, Ext. 2208). (18-3)

12:15 a.m. — 7:00 a.m.
(Plants 1 and 2)

(Zone 1)
PICO & NORMANDIE, Los Angeles. J. O. DUBONNETTE (5501-962, Ext. 2200), DU. 8-2038. (19-1)

(Zone 8)
CARSON & MAIN. (Interested in car pool), Torrance. J. A. NICHOLS (5544-912, Ext. 2645), TE. 4-6058. (19-1)

Rides Wanted

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 1)
VERMONT & 20TH ST., Los Angeles. BEN H. CHUN (3230-77, Ext. 2639), RI. 4640. 2-1-1

(Zone 2)
MAIN & 81ST or San Pedro, Los Angeles. JAMES KELLEY (5586-328, Ext. 1973), PL. 1-2214. (2-1)

NORMANDIE & VERNON, Los Angeles. FLOYD GARDNER (5508-170, Ext. 2230), AX. 31171. 2-1-2

(Zone 3)
FLORENCE & SANTA FE, Huntington Park. JOSEPH WINGET (5524-334, Ext. 2209), JE. 1798. (2-1-3)

(Zone 4)
VERMONT & CENTURY, Los Angeles. HARRY M. ROCHETTE (5585-89, Ext. 1381). (2-1)

(Zone 5)
CARSON & LAKEWOOD, Lakewood. JACK D. MATLOCK (5501-197, Ext. 2200), L.B. 5-6627. (2-1)

PLACENTIA & CENTER, Anaheim. Can take 5 riders. ORLEAN M. SWENSON (5501-351, Ext. 2200), KE. 5-9980. (2-1-5)

(Zone 6)
NORMANDIE & ROSECRANS, Gardena. ROSE M. MITCHELL (5504-64, Ext. 1424), ME. 9-2694. (2-1)

STUDEBAKER & SPRING, Long Beach. JOE NEIGGEMANN (5353-64, Ext. 1575), L.B. 344-108. (2-1)

ROSECRANS & MENLO AVE., Gardena. LOUISE RICHARDSON (5224, Ext. 1259), ME. 4-6403. (2-1)

(Zone 7)
AVALON & 223RD, Wilmington. OLIVE EVERS (5508-157, Ext. 2780), TE. 5-1030. (2-1)

(Zone 8)
CRENSHAW & 182ND, Torrance. R. C. JAYNE (5352-81, Ext. 1508). (2-1)

(Zone 9)
TORRANCE BLVD. & 101 HIGHWAY. (Interested in car pool), Redondo Beach. JOE MEYER (5353-39, Ext. 1575), FR. 2-0264. (2-1)

HAWTHORNE & 182ND, Torrance. ED J. JESTER (5163-64, Ext. 2071). (2-1)

(Zone 10)
PACIFIC COAST HWY. & 2ND ST., Hermosa Beach. LEON W. MORGAN (5524-123, Ext. 2209), FR. 9-2249. (2-1)

RIDES WANTED

7:00 a.m. — 3:45 p.m.
(Plants 1 and 2)

(Zone 10)
PIER & PROSPECT or 8th St. & 101 Highway, Hermosa Beach. KAY CLARK (5235-18, Ext. 1847), FR. 9-1878. (2-1)

HERMOSA AVE. AT 8TH or Pier Ave. at Pacific Coast Hwy., Hermosa Beach. FRED W. HARRAH (7230-43, Ext. 1417). (2-1-10)

(Zone 12)
MAIN & WESTMINSTER, Venice. ALLEN LEE FRANCOM (5504-170, Ext. 1424). (2-1)

LENNOX BLVD. & PRAIRIE AVE., Inglewood. LA VETA ELLIOTT (5235-25, Ext. 1827), OR. 1-3273. (2-1)

WASHINGTON & LINCOLN, Venice. V. F. CAMBRIDGE (5507-305, Ext. 526) EX. 9-6048. (2-1)

FREEMAN BLVD. & MANCHESTER, Inglewood. FREDRICK WHITEMAN (5508-164, Ext. 2780). (2-1)

(Zone 14)
PICO & CRESCENT HGTS. BLVD., Los Angeles. MRS. WINGO (5507-306, Ext. 526), YO. 4985. (2-1)

7:00 a.m. — 3:45 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 4)
CHEROKEE & DOWNEY AVE., Downey. HOMER MC GUIRE (5162-381, Ext. 2792), TO. 2-3921. (2-3)

EASTERN & FLORENCE. *(Urgent)*, Bell Gardens. C. S. MIDDLETON (5518-99, Ext. 2792), JE. 5656. (2-3)

TWEEDY & ATLANTIC, South Gate. LAUREL CANYON & MAGNOLIA BLVDS., 6-1546. (2-3)

(Zone 5)
ARTESIA & PARAMOUNT, North Long Beach. L. WARD GARLICK (5518-79, Ext. 2792), L.B. 81-20597. (2-3)

(Zone 6)
WINTERSBURG & BOLSA CHICA AVES., Huntington Beach. E. G. NESS (7420-137, Ext. 2240), LE. 6-2987. (2-3)

(Zone 8)
DENKER & CARLSON or Western, Torrance. MRS. JULE BROZKA (5162-328, Ext. 2075), FA. 8-2815. (2-3)

HAWTHORNE BLVD. & 182ND ST., Torrance. ROSALIE T. GILBERT (5373-20, Ext. 547 or 493), FR. 9-3181. (2-3)

(Zone 9)
ROSECRANS & YUKON, Hawthorne. ROY AMAN (5162-343, Ext. 548), OS. 67983.

(Zone 12)
INGLEWOOD & 98TH ST., Inglewood. L. F. DOBBIN (5509-86 Ext. 2075), OR. 2-0489. 2-3-12

(Zone 13)
KELSO & MYRTLE ST. (Three blocks west of Prairie), Inglewood. VIVIAN HUFFMAN (5508-160, Ext. 2764), OR. 2-9267. (2-3)

IMPERIAL OR 112TH ST. & Prairie, Inglewood. CHARLES MORRIS (5503-195, Ext. 2431). (2-3)

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 2)
CRENSHAW & 67TH. (Three blocks north of Florence), Los Angeles. JUNE MC-CAMON (9320-99, Ext. 2151). (3-1)

CENTURY & VAN NESS, Los Angeles. WINONA B. WATSON (8100-13, Ext. 2717), PL. 4-1554. (3-1)

(Zone 3)
ROSEMEAD AVE. & FOOTHILL BLVD., Arcadia. WM. A. GUTHRIE (5113-60, Ext. 1342), CU. 5-1096. (3-1)

(Zone 8)
REDONDO BEACH BLVD. & CRENSHAW, Torrance. MARY KALETA (5002-12, Ext. 609). (3-1)

(Zone 10)
INGLEWOOD AVE. & 134TH ST., Hawthorne. CAROL JOHNSON (4260-16, Ext. 655 or 1430). (3-1)

HIGHWAY 101 & ANITA, Redondo Beach. VIRGINIA GIPSON (4100-38, Ext. 2331), FR. 9-4152. (3-1)

ROSECRANS & HIGHLAND, Manhattan Beach. ANN MANNON (5910-825, Ext. 2541). 3-1-10

(Zone 11)
TAHOE & 122ND, Hawthorne. MARY BULTMAN (9320-66, Ext. 1681). (3-1)

PRAIRIE AVE. & 108TH ST., Inglewood. ARLENE RAINA (5100-26, Ext. 469), PL. 8-4835. 3-1-11

(Zone 12)
LA TIJERA & AIRPORT, Los Angeles. AMY W. WHITTEMORE (1442-7, Ext. 2671), OR. 2-2482. (3-1)

(Zone 13)
ROSCOE & SEPULVEDA. (Will drive to Ventura & Sepulveda. Interested in car pool), Van Nuys. IRENE BAKER (5930-47, Ext. 2498). (3-1)

LA TIJERA & CENTINELA or Freeman, Los Angeles. NANCY WALLACE (5050-11, Ext. 658). (3-1)

RIDES WANTED

7:30 a.m. — 4:15 p.m.
(Plants 1 and 2)

(Zone 13)
BEVERLY DRIVE & PICO. (Would be interested in car pool), Los Angeles. H. P. SCHABER (U.S.A.F., Ext. 1943), CR. 5-2187. (3-1)

SEPULVEDA OR SAWTELLE & WASHINGTON, CULVER CITY. BOB GARDNER (5910-28, Ext. 587), EXbrook 7-1548. (3-1-13)

(Zone 14)
LAUREL CANYON & MAGNOLIA BLVDS., North Hollywood. Would like to get in car pool. WM. S. COOK (3250-326, Ext 2164), SUnset 1-9678. 3-1-14

7:30 a.m. — 4:15 p.m.
(Plant 3 and El Segundo Buildings)

(Zone 1)
SLAUSON & CRENSHAW, Los Angeles. FLORENCE MILLER (3310-819, Ext. 421), AX. 3-8452. (3-3)

(Zone 3)
IMPERIAL & FIGUEROA or Figueroa & El Segundo, Los Angeles. ELINORE THOMAS (1210-18, Ext. 598), PL. 4-9194. 3-3-3

(Zone 4)
HWY 66 OR HWY 60-70, Pomona. R. H. KELEHER (8620-50, Ext. 2011). (3-3)

(Zone 5)
EL SEGUNDO & VERMONT, Los Angeles. EVELYN W. HERRON (1435-94, Ext. 2761), PL. 65640. 3-3-5

(Zone 8)
CRENSHAW & 174TH, North Torrance. JOYCE RANZENBERGER (3148-742, Ext. 495), ME. 4-9618. (3-3)

(Zone 9)
EMERALD & PACIFIC COAST, Redondo Beach. PAT LONERGAN (9350-19, Ext. 1810 or 2637). (3-3)

(Zone 12)
MANCHESTER AND EUCALYPTUS, Inglewood. MARJORIE ANHOLT (4220-103, Ext. 2738), ORchard 7991. 3-3-12

(Zone 13)
WASHINGTON & INGLEWOOD AVE. or Marcasel Ave., Culver City. D. O. FROMM 3270-71, Ext. 1274 or 1275), EX. 7-6388. (3-3)

(Zone 14)
SANTA MONICA & VINE, Hollywood 38. Desire car pool or riders from Hollywood vicinity, travel Crenshaw. PAUL T. NELSON (3510-192, Ext. 567), HO. 25025. 3-3-14

7:30 a.m. — 5:15 p.m.
(Plants 1 and 2)

(Zone 2)
NORMANDIE AVE. & 93RD, Los Angeles. PAULINE E. TIMS (6230-19, Ext. 2541). (4-1)

(Zone 10)
AVE. "D" & SOUTH IRENA, Redondo Beach. Interested in ride or car pool. W. F. MARTIN (3351-71, Ext. 778), FR. 51977. 4-1-10

(Zone 14)
CRENSHAW & ARBOR VITAE, Inglewood. DANIEL T. NEWMAN (3430-120, Ext. 1886). 4-1-14

3:45 p.m. — 12:15 a.m.
(Plants 1 and 2)

(Zone 2)
HOOVER & 42ND, Los Angeles. LILLIAN HILT (5151-212, Ext. 687), AD. 1-4452. 6-1-2

(Zone 5)
CENTER & BELLFLOWER, Bellflower. EDWARD E. WEYRICK (5501-490, Ext. 2200). 6-1-5

(Zone 10)
PIER & VALLEY DRIVE, Hermosa. BIRDIE KAPPOLD (5351-215, Ext. 2155), FR. 4-0219. (6-1)

DIAMOND & MARIA, Redondo Beach. CLARENCE TUTTLE (5163-234, Ext. 2071). (6-1)

INGLEWOOD & COMPTON, Lawndale. JOHN F. WILSON (5163-233, Ext. 2071). (6-1)

(Zone 11)
LA BREA & LENNOX Inglewood. DEMECIO S. HERNANDEZ (5508-433, Ext. 2327). (6-1)

(Zone 13)
SEPULVEDA & VENICE, Culver City. JOE FAYETTE (5163-232, Ext. 2071), EX. 8-9532. (6-1)

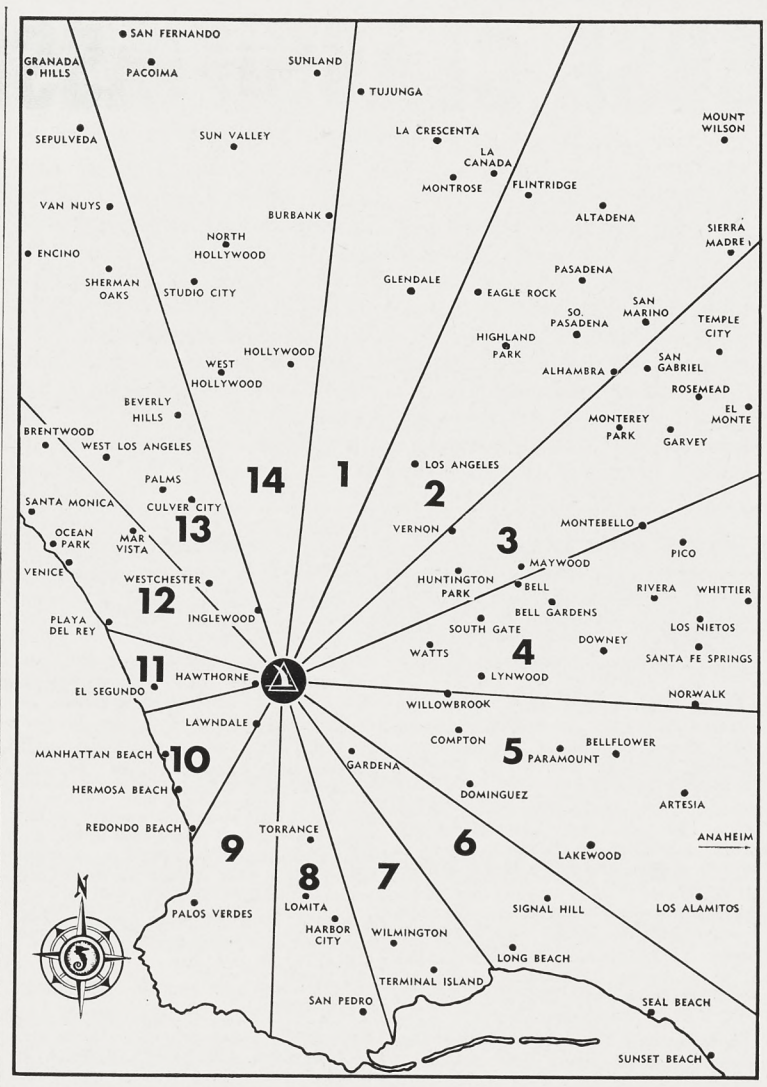
4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 1)
CENTURY & CRENSHAW. (Two blocks past Century Blvd. on Crenshaw), Inglewood. ARLETHA M. YUEN (5373-288, Ext. 532 or 538), PL. 6-2317. (8-1)

CRENSHAW & IMPERIAL, Inglewood. RETA R. EICHHORN (5507-470, Ext. 526). (8-1)

(Zone 2)
ECHO PARK & SUNSET BLVD., Los Angeles. CLYDE E. FISHER (5586-628, Ext. 483), MU. 6060. (8-1)

(Zone 5)
LAKEWOOD BLVD. & CANDLEWOOD. (Will share car pool), Lakewood. DAVID S. BAKER (5544-261, Ext. 2645). (8-1)



RIDES WANTED

4:45 p.m. — 1:15 a.m.
(Plants 1 and 2)

(Zone 6)
VERMONT & 182ND, Gardena. GRACE HAZLETT (4100-223, Ext. 2331). (8-1)

(Zone 7)
WESTERN & 182ND, Gardena. RUTH WOODY (4220-231, Ext. 643), ME. 9-3959. (8-1)

(Zone 9)
PRAIRIE & COMPTON, Hawthorne. LA JENNE M. DUKES (4100-215, Ext. 2331), OS. 5-4146. (8-1)

(Zone 11)
SEPULVEDA & IMPERIAL, El Segundo. (Imperial Hwy. & Aviation Blvd. would be satisfactory), JACK MONK (5503-652, Ext. 2681), El Segundo 621. (8-1)

FREEMAN AVE. & 120TH ST. (Ride wanted home only), Hawthorne. BETTY L. NORMAN (5224-269, Ext. 1851), OS. 6-3365. (8-1)

(Zone 12)
PRAIRIE & 102ND ST., Inglewood. E. V. STEVENS (5501-629, Ext. 2200). (8-1)

(Zone 13)
CENTINELA & LA BREA, Inglewood. RAY M. PHILLIPS (5504-604, Ext. 1363), OR. 2-6194. (8-1)

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 2)
FIGUEROA & 8TH ST., Los Angeles. MARVIN TURTLETAUB (5621-418, Ext. 2208), TR. 0331. (8-3)

RIDES WANTED

4:45 p.m. — 1:15 a.m.
(Plant 3 and El Segundo Buildings)

(Zone 4)
FLORENCE & ORR & DAY, Norwalk. M. KREWETS (5502-264, Ext. 2741), TO. 4-5554. (8-3)

LA BREA & FORMOSA AVE., Hollywood. Need ride urgently, willing to walk from Plant I. F. J. MITTELSDORF (5502-277), Ext. 2741. 8-3-4

12:15 a.m. — 7:00 a.m.
(Plants 1 and 2)

(Zone 8)
CARSON & MAIN. (Interested in car pool), Torrance. J. A. NICHOLS (5544-912, Ext. 2645), TE. 4-6058. (9-1)

Miscellaneous (Split Shifts)
(Plants 1 and 2)

(Zone 2)
ALVARADO AND OLYMPIC, Los Angeles 6. LUCY M. SIGMAN (9330-213, Ext. 1471), DU. 7-9631 (ask for Mr. Welch). (Hours 4:15 to 12:45). 10-1-2

(Zone 9)
REDONDO BEACH BLVD. & INGLEWOOD AVE. (Hours 5:15 to 1:45), Redondo Beach. JACK FARASH (9350-259, Ext. 474). (10-1)

Miscellaneous (Split Shifts)
(Plant 3 and El Segundo Buildings)

(Zone 9)
HAWTHORNE & SEPULVEDA. (Hours 4:15 to 1:00, will wait until 1:15), Redondo Beach. LORRAINE LYDON (6250-214, Ext. 1611), FR. 5-6693. (10-3)

BBSF Classifieds

(Continued from Page 5)

LOST

DOG, thoroughbred blond cocker, male; last seen vicinity of Compton and Osage Avenues, Lawndale, Friday, January 22. Part white with blond freckles no identification, answers to Rugby. Reward to person(s) giving information leading to recovery. JOAN TUSTISON, OS. 6-2019. J

DOG—Lost in Gardena vicinity; female brindle boxer, white feet and chest, 1 year old, wearing choker chain; answers to name of "Susie." BETTY DAVIS, OSborne 5-2943. J

FOR SALE OR TRADE

21′ cabin cruiser, double plywood hull, V-8 engine, canvas to cover, galley and head, 4-wheel trailer, terms or trade for ? $2200. G. M. BOYD, OS. 6-2651. M

OLDSMOBILE, 1942 4-door, Hydramatic, or will trade for 1941 Ford, $125. BOAT, like new, completely equipped, ROBERT W. VOGEL, MEnlo 9-1705. M

FOR SALE OR TRADE

ANTIQUE AUTO, Willys-Knight, mechanically perfect, new tires, require very little work to restore to new condition for horseless carriage auto; consider trade; $135. DON JAYNE, ORchard 1-6369. M

MATTRESS, Englander Red Line innerspring, full size, excellent condition, full size coil springs. Will trade for car radio for 1947 Ford or an under dash type, or will sell for $25. E. W. SCOFIELD, OR. 16692. M

RING SET, never been used, 7 diamonds, original price $180; make offer or $100. WANDA CHANTRY. Reply in writing to Northrop News, Box 1428. M

TRAILER, 2-wheel, used only once on trip, will sell or trade with someone for TV set. Phone TW. 0375 for information. JIM MOORE. M

TYPEWRITER, portable, Underwood, like new; RING SET, man & woman's; RECORD PLAYER, RCA Victor 45 RPM, like new. ANN CASNER, OR. 2-7436. M

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BALLROOM DANCING
Open house and dance contest, Saturday evening, February 20, 7:30 p.m. NRC Clubhouse. Everyone welcome .

BASKETBALL CLUB (day)
Larry Baird, acting commissioner
Interdepartmental League play Monday and Thursday 7:45 to 10:00, Leuzinger.

BASKETBALL CLUB (night)
Available practice sessions at Rosecrans Playground, 149th and Vermont, Gardena—Monday and Tuesday mornings, 10:00 to 12:00.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily—Plant I, Plaster Shop tent, 11:00 a.m.; Plant II, second floor, center conference rm., 12:30 p.m.; Plant III. conference room 5, 12:15.

BOAT CLUB
Elmer Chiodo, commissioner
Next meeting, Monday, March 1, 7:30 p.m., NRC Clubhouse.

BOWLING CLUB (day)
Chuck Carson, commissioner
General meeting, NRC Clubhouse Annex, Sunday, February 14, 12:30. Annual Spring Tournament, Hawthorne Bowl, Sunday, April 25, and May 2.

BOWLING CLUB (night)
Tony Cardoza, commissioner
See above for information on Annual Spring Tournament.

BRIDGE CLUB
Walt Darby, acting commissioner
Meet 2nd & 4th Tuesday each month. Next meeting Feb. 23, NRC Clubhouse.

CAMERA CLUB (day)
George Fuller, acting commissioner
Meet every other Friday, NRC Clubhouse Annex. Next meeting February 19, 7:30 p.m.

CAMERA CLUB (night)
Adam Slusarz, commissioner
Meet every other Saturday evening, NRC Clubhouse. Next meeting March 6, 7:30 p.m.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 am., Conference Room T-1.

GOLF CLUB (day)
Jim Milne, commissioner
Handicap Committee will meet at the NRC Clubhouse on the first and third Saturdays in February, 7:00 p.m.

GUN CLUB
Dick Booth, acting commissioner
Meet every other Tuesday, 7:30 p.m., NRC Clubhouse. Next meeting Feb. 16.

MIXED CHORUS
Meet every Wednesday evening, NRC Clubhouse Annex, 7:30 p.m.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m. Call PASS for information.

PHILATELIC CLUB
George Borton, commissioner
Philatelic and Numismatic combined club meets 2nd and 4th Monday each month. Next meeting Feb. 22, NRC Clubhouse, 7:30 p.m.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun., Feb. 21, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, Feb. 18.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot Feb. 20. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKI CLUB
Ken Waters, acting commissioner
Meet every Wednesday evening, 7:30 p.m., at NRC Clubhouse.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be Feb. 15, NRC Clubhouse Board Room.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse. Next meeting March 11. Combined Northrop, North American, Hughes Sport Car Club "Standing Start One-Quarter Mile" on Sunday, Feb. 28, 8:30 a.m., Saugus Drag Strip.

SQUARE DANCING
Dave Dyer, commissioner
Meet at Swimms Barn, 15016 Paphne St., Gardena, from 7:00 to 10:00 p.m. Meet 1st, 2nd, 4th & 5th Sundays.

SURF FISHING
Ted Griswold, acting commissioner
Meet NRC Clubhouse, 7:30 p.m. Next meeting Tuesday, March 9.

TOASTMASTERS 212 (day)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS 1398 (night)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon, Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Orval Coley, commissioner
Meet Wednesday, Feb. 24, 7:30 p.m.; NRC Clubhouse.

Gala Party Planned for Dance Club

A new series of ballroom dance classes is scheduled to get under way Saturday, March 6, it has been announced.

Bill Williams will instruct.

Registration for the new five-lesson series will be held in the NRC Clubhouse February 20.

In honor of this final night of the first class, NRC has planned a gala evening of dance contests and exhibition dancing with trophies for some and prizes for all. Twenty couples will participate in the dance contests—consisting of fox trot, tango, and swing.

Classes are to be held every other Saturday evening. Fee for the course of five weeks is $2.50 per person.

SQUARE DANCERS SCHEDULE HEAVY HOE-DOWN SLATE

Square dancing got off to a flying start on January 24, despite rainy weather, when better than 50 Norcrafters met to open the season.

Square dancing is scheduled for the first, second, fourth and fifth Sundays through coming months, with meeting place at 15016 Daphne, Gardena (one block north of Compton Boulevard, between Crenshaw and Western), as reported by Dave Dyer, club commissioner. Dancing time is from 7 to 10 p.m.

Progress already shown indicates that all dancers — including beginners — would reach intermediate stage in a very short time.

Snark League in Finals; Scorpions End One Round

The first round in the NRC Scorpion League's basketball play ended with 5501 undefeated champions. The high scoring winners defeated 3250, 50 to 25, with Fuller and Bosses scoring 24 and 12 points, respectively. Department 9340 got back on the winning track by defeating Lynwood in a close 35 to 31 game, with 12 points scored by Forbes Piccerello and Borch at 9 points each topped Lynwood's scoring.

First round standings for Scorpion League are as follows:

TEAM STANDINGS

Team	Won	Lost
5501	5	0
9340	4	1
Lynwood	3	2
5100	1	4
3230	1	4
5518	1	4

Meanwhile, the Snark League goes into the final set of games with 5503 the only undefeated team. Fourth week games were topped by 5353 giving 3350 its first loss in a close overtime game with a score of 34 to 32. Garcia dunked 14 points for the winners and Richardson 12 for the losers. Department 3142 ran away from 3250 by the score of 26 to 10. Williams and Younger divided scoring honors with 8 and 7 points, respectively. Department 5503 downed 8620, 32 to 26. Abeyta scored 13 points for 5503 and for the losing team Powers scored 9 points and Wegnes scored 8.

Team standings at press time are as follows:

TEAM STANDINGS

Team	Won	Lost
5503	4	0
3350	3	1
3142	2	2
8620	1	3
3250	1	3
5353	1	3

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Dorothy Hodgson, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BASKETBALL
Betty Talley, acting commissioner
League now in progress at Ardmore Playground Tuesday evening, 7:30 p.m.

BOWLING
Florence Rice, commissioner
Ladies Handicap League in progress at Torrance Bowl, Tues. 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Interested ladies please contact PA&S.

FLOWER CLUB
Mary Nelson, acting commissioner
Meets second Tuesday of each month, NRC Clubhouse, 7:30 p.m.

GOLF CLUB
New series of golf lessons now available, Culver City Course, Tues., 7 p.m. For information, call PA&S, 2784.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse. New project: Drapery making .

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP (MARINERS)
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Peggy Barber, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 to 6:30 p.m. Baby sitting provided if necessary.

Chiodo And Fuller New NRC Heads

Latest additions and changes to the roster of NRC club commissioners: we welcome Elmer Chiodo, newly elected comisioner of the Boat Club, and George Fuller, new acting commissioner for the Camera Club, days. George has taken over for Walt Darby, who moved into Bill Glose's spot as acting commissioner of the Bridge Club. Until recently, Walt has been handling both Camera Club and Bridge Club duties and doing a fine job of it.

On behalf of all NRC members, may I say—thanks, Walt . . . and congratulations, Elmer and George.

★ ★ ★

Outdoor California for January, 1954, listed a means by which every California sportsman can help improve his hunting and fishing—as suggested by George D. Difani, president of the Associated Sportsmen of California. Sportsman leader Difani urges all hunters and fishermen to join him in adopting the following resolutions:

I RESOLVE

1. I will be a safe hunter. I will help teach inexperienced hunters the principles of safe gun handling, and encourage, in every way I can, the reduction of accidents afield.

2. I will take no more than my fair share of game and fish, regardless of higher creel and bag limits. I will obey the fish and game laws, and encourage others to do so by my example.

3. I will respect the rights and opinions of both landowners and fellow sportsmen, and will work for better farmer-sportsman relationships.

4. I will help build up the membership of my local sportsman or conservation club and take an active part in its program to better hunting and fishing conditions in my community and state.

5. I will lend a helping hand to state and federal organizations that are trying to achieve sound management of our wildlife resources.

Rod and Reel Rewards

NRC SURF FISHING Club enthusiast John W. Pawlicki, Final Inspection, proudly displays king fish and barred perch caught on recent fishing expedition at Torrance Beach. Surf Fishing Club activities aside from the rod and reel include field trips and lectures. Next meeting schedules lectures by Ray Cannon, noted author of "Fishing on Pacific Coast".

Saturday Keg Meet Planned

Next general meeting of NRC bowling enthusiasts will be held at NRC Clubhouse Annex on Sunday, February 14, at 12:30 p.m. All league officers, members of bowling teams, and representatives of NRC-sponsored tournaments are urged to attend, says Chuck Carson, Bowling Commissioner, Days.

Meeting will discuss spring tournament details, plans for First Annual Bowling Ball—scheduled for May 8—and the Los Angeles Bowling Association meet which is to be held on Sunday, February 21, at 10 a.m., in the Odd Fellows Temple, 1828 Oak Street (near Vermont and 18th Street), Los Angeles.

Teams are now being formed for the Spring Tournament to be held April 25 and May 2, at Hawthorne Bowl. Entry blanks will be available in PA&S offices on March 15 and entries will close April 2. Entry fee will be $2.30 per person per event plus an optional 50¢ for all-events.

EDDIE JOHNSON NIGHT AT ARAGON ON FEBRUARY 27

Northrop night at the Aragon Ballroom in Ocean Park will be Saturday, February 27.

In addition to dancing to the champagne music of Lawrence Welk, it has been announced that the program will be called "Eddie Johnson Night", and guest vocalist will be Norcrafter Eddie Johnson, Maintenance department.

Discount tickets for this evening may be obtained from PA&S offices. Admission price with discount ticket will be 75c per person.

THE Northrop Scene BY DAY AND NIGHT

Area "G" C-D Rescue Truck Display

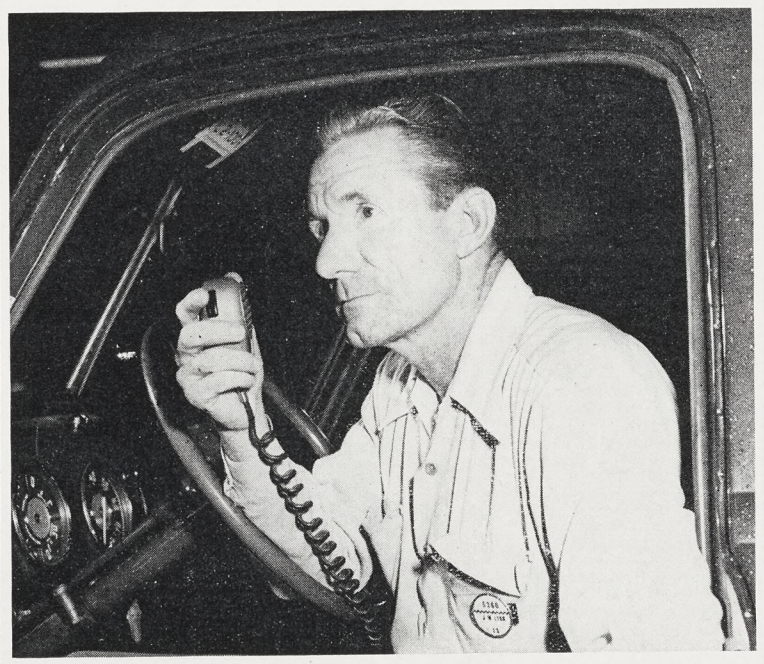
THE CD "ONCE-OVER" — Among Norcrafters inspecting Area "G" Civil Defense rescue truck on display lunch-hours over January 18 and 19 at Plant 1 and Crenshaw cafeterias were Dr. Roger Mackey, left, and Lee Johnson, safety engineer, center, representing Northrop's Executive Advisory Committee on C-D. Inglewood's rescue instructor Don Brown, at wheel, and Battalion Chief C. C. Linfeld, of Inglewood Fire Department, hosted display.

EQUIPMENT on truck includes 327 pieces. Dr. Mackey queries Instructor Don Brown on first aid kit, Chief Linfield standing by. Other members of Northrop's C-D Executive Advisory Committee, but not shown, are Chairman John B. Clark, director, Industrial Relations; Co-Chairman E. F. Burke, chief, Plant Security, Protection; Lee Ohlinger, Computing chief.

AREA "G" TRUCK, servicing eight communities in Northrop - Hawthorne locale in case of emergency, is maintained and operated by Inglewood, represents atomic age equipment investment of $9,000. Chief Linfield here briefs Jerry Baker, Northrop C-D coordinator, on truck's rescue capabilities. Truck's design follows British World War II model rescue vehicle.

Baseball Celebrities

HOT STOVE LEAGUE conversation was mingled with airplane talk when famed Chuck Dressen, center, visited Northrop recently. He is shown with Norcrafters Dave Carey and Bob Steele in the flight tower, where the latter are airport operations controllers. Dressen, who left the Brooklyn Dodgers after winning pennant, will manage Oakland this year.



ANOTHER BASEBALL FIGURE, well known to Norcrafter diamond fans, is J. M. "Red" Lynn. Red, ex-"fireman" on the Hollywood Stars' pitching staff, drives a truck for Internal Transportation, is a favorite target for "hot-stove league" experts in that department, and others. He won 10, lost only four, and saved 18 ball games last summer for the Twinks, while participating in total of 58 games.

IMPORTANCE OF CIVIL DEFENSE training and its relation to national defense program was outlined to night shift C-D wardens in recent sessions. Attending meeting, from left, first row: Norm Nelson, Dean Newman, L. F. Fredrich, J. W. Janulewicz, Donavon Sowles, Ken Ross, Del Alexander, Bill Levens. Second row: Carl Engstrand, John O'Brien, Jack Gifford, Walt Ickes, S. B. Micek, Lonnie Foreman, Robert Noah. Third row: E. L. Murphy, L. W. Brackett, L. A. Keaveny, G. T. Younkin, Fred Muehlhaus, Peter Vidano, Jean Nolan. Fourth row: T. H. Osborn, L. C. Blanton, Bill Hoffman, S. M. Baldwin, Ray C. Moore, Ralph Allen, James Tangen. Fifth row: Fay Ratcliff, H. C. Odell, C. R. Stocker, B. E. Rodaway, C. L. Byfield, W. T. Ruud, H. F. Voelker, P. J. Armstrong. Last row: Dorothy Raymond, Mary Hinze. Presiding was L. J. "Jerry" Baker, Civil Defense coordinator.

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, February 24, 1954

Heart Fund
Were You a Valentine?
It's not too late —
pledge cards available at PA&S

FIRST FIXED PRICE CONTRACT SCORPION

LINE-UP OF NORCRAFTERS who had prominent hand in getting first fixed price airplane ready for flight. From left: Carl Ramey, Tom Hunter, R. J. Simpson, of Experimental Flight Test (1810); W. F. Hill, Production Mock-up and Quick-Fix (5515); Chuck Taylor and Les Ferguson (1810); Ernie McNeil (5515); Don Black, Advanced Production Planning; J. R. Fellhauer (5515); Max Fayrweather, assistant superintendent, Production Assembly; M. E. Butler and Ross Rogers (5515); Bill Page, Master Planning; Court Heckman, Flight Service; Paul Jacobs, project superintendent, Assembly Operations; Wally Lien, J. U. Thomson, F-89 Project Office. All divisions share credit for fast job.

PILOT congratulates production Norcrafters before takeoff in first fixed price airplane. Jack Farley, in coveralls, shakes hands with Rex Thornhill, Advanced Production assistant superintendent. At left are George Schwalm, Advanced Production Control, and Jean DePue, Flight Service; at right, Glen Stewart, also Hawthorne Flight Service.

Plant Teamwork Keynotes First New Contract F-89

Flight of the first fixed price contract airplane on February 3 has highlighted again the teamwork among Norcrafters in engineering, planning, production, flight, and inspection departments.

The Scorpion that took off from Northrop Field with Jack Farley at the helm was one which was five months ahead of contract schedule, advanced ahead of regular schedule so that bugs could be worked out before her sisters would begin to flow off the line.

The completion of the airplane so early was a remarkable feat, for it was the first of production airplanes to come after a major change point.

There was complete equipment re-arrangement. Wiring was changed almost 100 per cent. The outer wing was strengthened. There was a cockpit change; the gas-operated ejection seat was installed.

On top of all that, the airplane has provision for the most advanced fire control and autopilot systems.

It took only a little more than 15 weeks from the point of entry into final assembly to completion, Planning personnel pointed out, adding that this could be considered a full production airplane, with a minimum of temporary tooling used.

There were only eight squawks when the Scorpion completed its first flight.

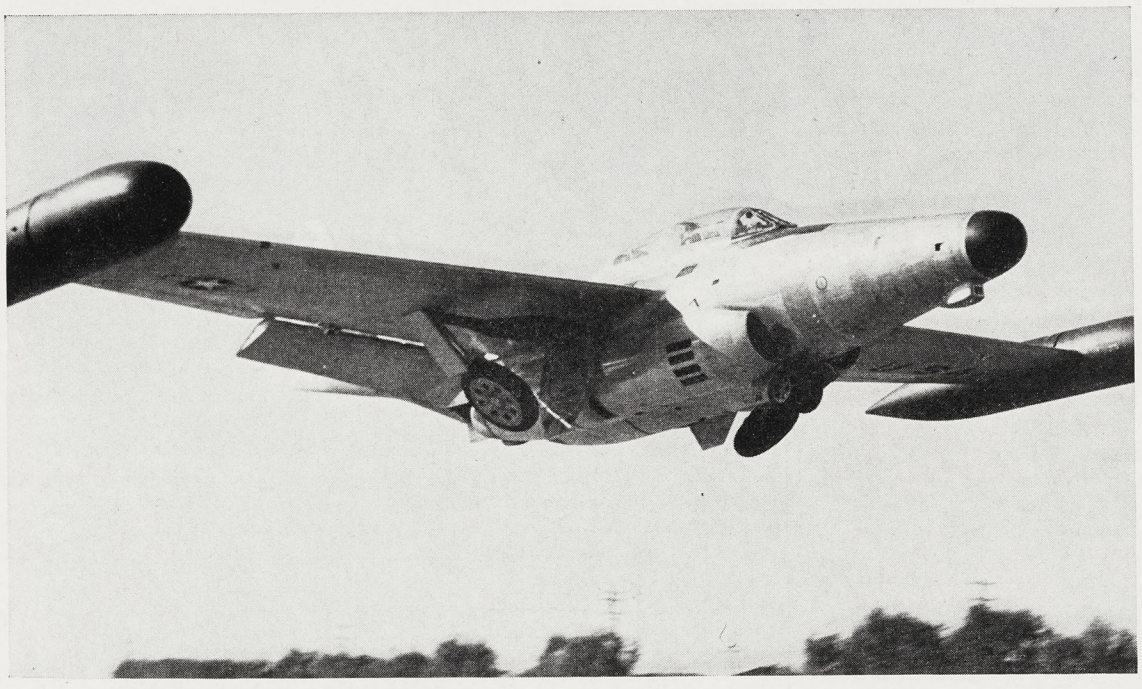
Yeoman effort all along the line completed the job which had been termed "practically impossible".

The airplane moved through 27 line positions in a matter of 12 days; it was in Flight Test instrumentation 11 days before it was even scheduled to go into final assembly!

And in instrumentation it took six weeks to do what normally requires 20 weeks on a brand-new job like this!

Simultaneously with the production aircraft there was built

(Continued on Page 6)



FIRST SCORPION built under terms of fixed price contract takes off from Northrop Field. Chief Production Test Pilot Jack Farley was at the controls to fly the airplane to Ontario. The aircraft has provision for the most advanced fire control system, necessistating number of changes.

S-C IS NOW AGE THREE

(See Mat Con Story, Page 2)

Communist Conspiracy

BY DR. JOHN R. LECHNER, M.A., LL.D.

(Second of a series of four articles)

When the brain trust of the communist conspiracy set up the program to promote Marxism in America, some of the most brilliant minds in the field of mass psychology fashioned the pattern for disruption.

These men knew that before communism, with its ugly revolutionary objectives, could gain a foothold among a people who were enjoying the highest standards of living in human history, the various segments of the American society had to be conditioned through mutual distrust and hatreds. Thus, the most diabolical and clever techniques of propaganda ever devised by mankind were planned by such men as Trotsky and Lenin to foster class and race hatreds.

CLASS WAR

The principal weapon for the communist conspiracy has been the development of class warfare. The conflict between "warring classes" is the basic theme of the "Communist Manifesto", "Foundations of Leninism" and "The State and Revolution"—the classics of violent revolution.

Communist leaders have been highly successful in taking advantage of every social and economic maladjustment to cast suspicion on free government and free enterprise.

They have employed every trick to dramatize these maladjustments, at the same time praising the glorious "Utopia" under Soviet totalitarianism. To this end, millions of dollars are being spent each year for Red publications, pamphlets, journals, meetings and workers' conferences and schools. Through the hatreds created, communist organizers have been able to build powerful mass fronts in many strategic defense industries.

POLITBURO

The communist structure throughout the world is headed by 14 members of the Politburo, with headquarters in the Kremlin, Moscow. Its international political agent is the Cominform, the Soviet transmission belt which reaches across the seven seas.

National committees in every nation receive their instructions from the Kremlin, usually through the Cominform, and form the upper echelons in the free nations of the world. The national committee in the United States has direct supervision over its 13 national commissions, which, in turn, direct and discipline all front organizations in the nation. At the bottom of the communist structure are shops, or street units, sometimes called cells. They are comprised of three or more members covering a single factory or neighborhood. All units in a given area comprise a section. All sections in a state or several states comprise a district.

From the top to the bottom, every communist MUST accept and carry out orders given by his superior, no matter how distasteful or treasonable.

NO DEVIATION IS TOLERATED.

Hence, a worker who becomes enmeshed in the communist network loses his individuality and self-determination. His activities may eventually lead him to spying, sabotage, passport fraud, perjury, counterfeiting, rioting or treason. There can be no excuses when the assignment is given, and the penalty for failure, even in the United States, may be liquidation.

RUTHLESS

Thus, what started out to be membership in an organization which promised corrective measures in our economy becomes membership in the most ruthless and highly disciplined conspiracy ever devised against the worker and his government.

Communism can offer one thing and nothing else—hopeless enslavement for the worker and the nation.

A channel along which communist propaganda has been directed is in the field of racial relations. Of all the attacks against the American people, this is the most vicious and unforgivable. Millions of good Americans have been hurt by the impact of falsehoods, half-truths and hate-breeding ideas designed to pit Negro against white, and Jew against gentile.

Communist propagandists, often parading under the guise of humanitarians and liberals, have exploited the fears, the prejudices or the maladjustments of minority groups, and have played up other racial problems for the purpose of building political and ideological cohesiveness among these groups and swinging them into the communist mass movement in America.

So well organized is this assault upon our internal unity, and so vicious are the attacks upon anyone who dares expose the machinations of these ruthless exploiters, that a discussion of minority racial problems appears to be taboo in most public meetings, except when these problems are discussed by "liberals" or by communist stooges with a leftist bias and a maudlin sentimentalism. The lack of objectivity has often prevented a solution of specific problems, and instead has produced added tensions.

COLD-BLOODED

Communism is a cold-blooded military conspiracy against the United States of America and all free governments of the world. If it fought its battles purely along ideological lines, we might hope to meet it successfully on its own ground by exposing the decadent economy under the Soviet system of compulsion and slave labor.

Karl Marx gave communists their basic premise when he blamed all the ills of society and modern civilization on "capitalism", and declared that capitalism must be wiped out, regardless of the terrible methods which may be needed. He excused the worst of human conduct—mass murder, treason, starvation and enslavement—as legitimate methods to reach the objective — the destruction of free governments and the establishment of dictatorship under the Soviet Union.

(Next Issue—"Insurrection")

MAT CON-SAFETY GENERAL COMMITTEE met recently, formed plans for 1954, fittingly announced just before Mat's third birthday—March 2. At head table: Bill Morgan, Lee Johnson, Ray Wenger, John Breneman (chairman). First row, from left: Roy Balling, Roy Prueter, Ollie Omley, Lynn Covington. Second row: Frank Brannon, Jack Miller, Forrest Gordon, Ed Bates. Third row: Bill Meyerson, Carl Raker, Tommy Blair, and Tom Duddleston. In rear Walt Fischer, Bob Hall, Bob Underwood, and Benjamin Christie.

Mat Con Celebrates Third Birthday at Northrop Field

With organizational pattern being adopted by a number of other companies of national stature, and the program assuming increasing national importance as a result of government efforts to get more Air Force per dollar, Safety-Conservation Norcrafters — operating under the symbol of Mat Con — last month laid careful plans to continue the momentum already gained.

At the same time the '54 campaign lines were drawn by the General Committee — highest action committee in the program — S-C Norcrafters took a brief look backward at their achievements of the past year.

What they saw — and what they resolved to do — are fitting presents for Mat Con's third birthday, which comes on March 2.

In 1952, it was pointed out, there were 1766 constructive recommendations made by 561 Safety-Conservation committeemen. In 1953 participation soared — 755 members advanced 2708 recommendations.

In the realm of Suggestion Awards — a program heartily promoted by Mat Con — the evidence was there, too. There were over 2600 suggestions from Norcrafters; almost 600 proved their worth, and brought in more than $15,000 to their originators in awards.

Participation in the monthly meetings of committees showed marked enthusiasm, attributed partly to increased showing of safety-conservation films, and more extensive use of colorful posters.

But there would be no pause in the efforts of S-C committeemen, John Breneman, assistant factory manager, nights, the chairman of the General Committee, said at the meeting.

"No matter how good the record," Breneman remarked, "we are never satisfied with anything less than the ultimate!"

Breneman's remarks followed presentation by Ray Wenger, general coordinator, Conservation, and Lee Johnson, chief safety engineer, of reports showing the gains made in the twin aims of the Mat Con program.

The meeting's discussion of 1954 aims showed graphically the wide field of endeavor in which safety-conservation can have beneficial effect, and spokesmen at the gathering emphasized the responsibility attendant upon shop and office representatives in the organization.

The year's programs will place emphasis on handling, care, and maintenance of standard tools. Housekeeping will be promoted as a daily habit to deter waste and help curb accidents.

Conservation of materials is the target for a program regarding storage, shipping, and handling of parts and stocks. And preventive maintenance campaigns will aim at elimination of safety hazards plus a lengthened life for tools and equipment.

With these subjects before the General Committee as main features of the year's operations, John B. Clark, director, Industrial Relations, who addressed the group at the conclusion of the meeting, said that the Safety-Conservation program was one of the necessary factors in a successful manufacturing operation. He lauded the work of the S-C committees in disseminating conservation information throughout the plants.

SAFETY, CONSERVATION representatives prepare display to show twin aims of Mat Con program:—safety and conservation. Tom Cunningham, Safety, and Denver Swain, Conservation, are night shift reps of the two departments; February theme of the program is behind Denny at right.

Northrop News

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JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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Norcrafters to Eglin For Special Weapons Program

Northrop special weapons test forces in Florida will soon be augmented by a group of 17 engineers, technicians, and an inspector to be stationed at Eglin Field for operations.

The vanguard of the group, consisting of Warren Schreyer and Jim Haizlip, Engineering Labs, and Jack Overton, Engineering Lab Services, left last week end.

The group is expected to be at Eglin until September, when the program will be completed.

Test Lab Norcrafters at the scene will be under the supervision of Schreyer, lead engineer. Included are Joe Wilson, Bill Annand, Chuck Gibbons, Don Knittle, Dick Lorge, Lawson Stafford, and Gene Cornford.

Buck Rogers supervises Engineering Lab Services operations, assisted by Norcrafters Al Dunniboil, John Guess, Wallace Morgan, Frank Reed, and Bill Walker. Overton will be responsible for procurement requirements.

Project inspector for the operation will be George Coffey, of Missile Manufacturing Inspection (7520).

Monitoring the project, with several visits scheduled later, are Ken Yost, group engineer; Chuck Shelly, Engineering Lab Services supervisor; and Oscar Minton, project office representative.

Recreational facilities for the group will not be lacking, Personnel Activities and Services having made arrangements for their provision earlier.

Housing accommodations in the area have been supplied for the men and their families with the active assistance of the Industrial Relations division, through Bob Underwood.

Down . . . . . Range

"Down Range", newest Northrop News feature, will recount pertinent Norcrafter and company events and happenings in staccato style for quick and easy reading.

The name "Down Range" is a missile term recently borrowed from artillery folk. The News now borrows it from missile and will put it to general use.

News editors liked DR because its streamlined meaning applies to what this feature will do—help keep track of Norcrafter successes and accomplishments—all 22,600 of us.

Ray Wenger and Jimmy Scott represented Northrop at AIA Manufacturing Methods Conservation panel in San Diego last week . . . held at Convair . . .

Larry Donoghue, Palmdale Industrial Relations departmental assistant, is on duty week-ends at the Palmdale Chamber of Commerce . . . serving Norcrafters seeking housing information about area . . .

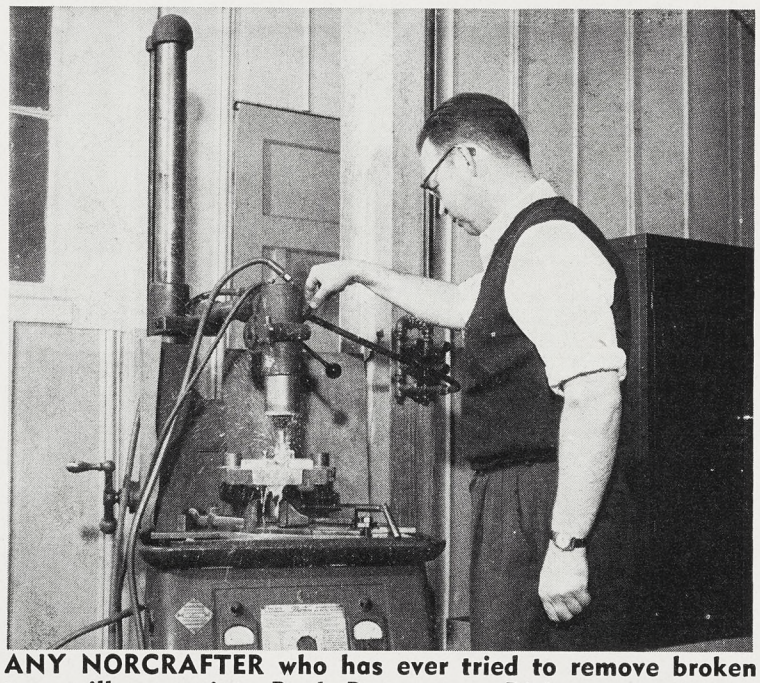
Ted Griswold, Engineering, is an arctic explorer . . . Admiral Byrd South Pole Expeditions . . . he also beachcombed his way around globe at the age of 21 . . .

Lee Johnson, Northrop safety engineer, addressed the Fourth General Meeting of California Industrial Safety Conference, February 11, 12 in San Francisco . . . subject: "More Safety With Conservation" . . .

BBSF response record, 43 calls in answer to a used car ad, has fallen in favor of 57 calls in response to a $5.00 wheel barrow ad submitted by Virginia Bauby, LAX.

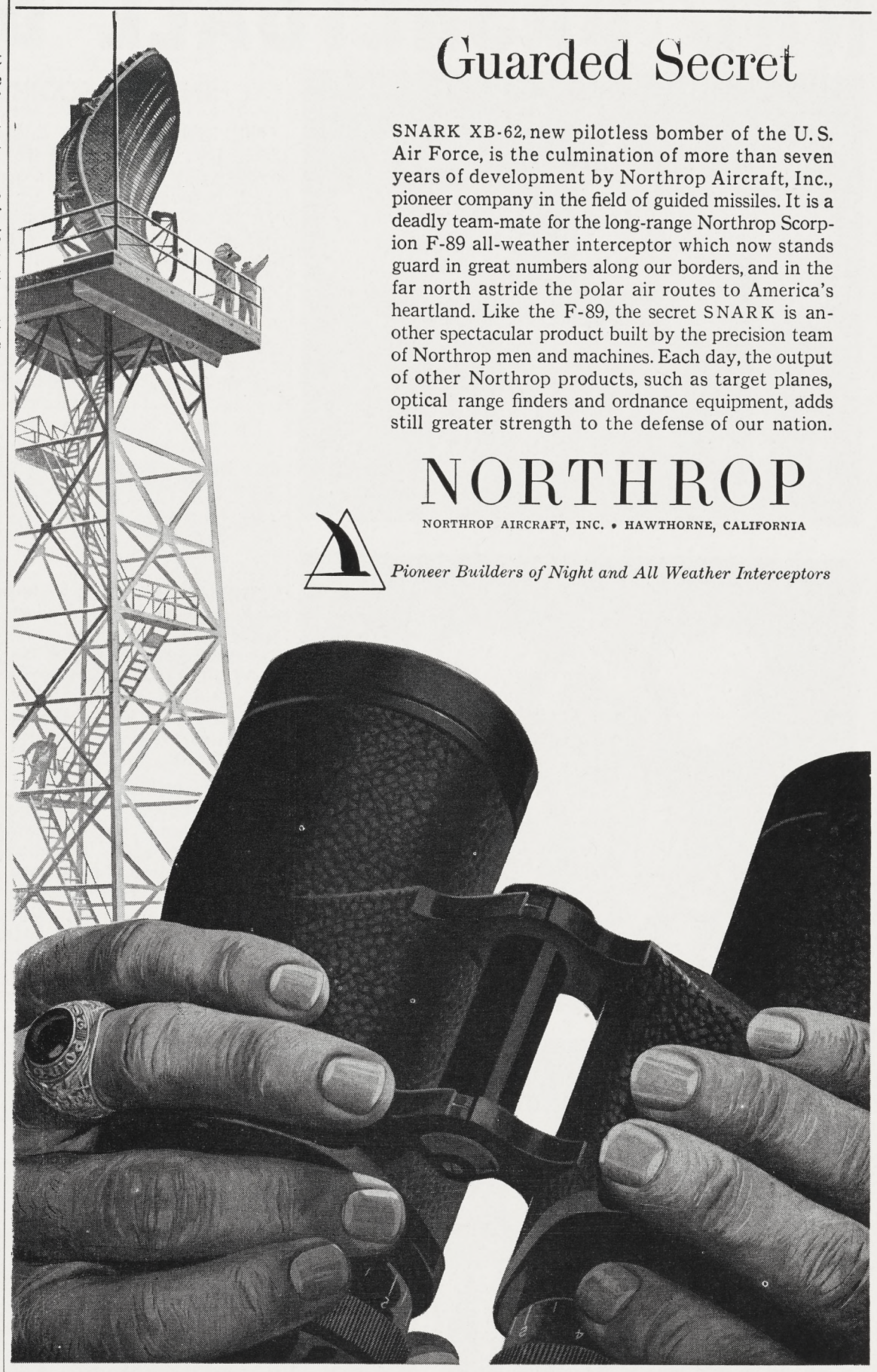
Bob Willson, Personnel manager, reports all time high for Northrop personnel—22,601 as of 9 a.m. Monday, 15 February 1954.

Frank "Chris" Christofferson, chief, Experimental Flight Test, headlined recent panel at IAS New York meeting . . . Chris presented talk on "Flight Test Organization" . . .



ANY NORCRAFTER who has ever tried to remove broken taps will appreciate Buck Rogers-type Disintegrator in use in Tooling Machine and Die Shop (5445). Night shift Leadman John Hackney burns out broken tap from small die, as sparks fly from electrode and coolant splashes around it. Electrode is hollow tube, coming in several sizes; it generates intense heat as it burns hole into metal being worked on.

Telling Northrop Team Story



FIRST OF SERIES of institutional ads to be reproduced by Northrop News is one above telling of Northrop development of XB-62 missile. Prepared by Public Relations division, ads are scheduled for publication throughout the year in several leading aviation magazines, including Aviation Week, Aviation Age, Aero Digest, Air Force, American Aviation, Aeronautical Engineering Review, Western Aviation. Each ad relates varied engineering, manufacturing accomplishments of precision team of Norcrafters—those to follow cover F-89 performance and armament; Anaheim-built U.S. Army Ordnance rangefinders; Radioplane products. Limited number of reprints is available free at PA&S.

CHINCHILLA RANCHER E. R. "Sky" Schuyler, Schedules and Change Control, left, holds entry and trophies for Third Annual Southern California Chinchilla Association of America show held January 16 and 17 in Long Beach. Sky's chinchilla won First in Class, Reserved Class Champion, Reserved Champion Male of Show, and Reserved Grand Show Champion. Earl Hagaman, right, holds trophies of Grand Show Champion, won by entry he holds.

NRC BASKETBALL BIGGEST YEAR

SNARK, SCORPION LEAGUE ROUND ONE CAGERS

NRC basketball turnout, dayshift league teams pictured on these pages, makes for one of the biggest years in NRC annals, according to Larry Baird, basketball commissioner, days.

It is estimated that approximately 200 Norcrafters have actively participated in the Globetrotter-type activity and hundreds more have acted as spectators.

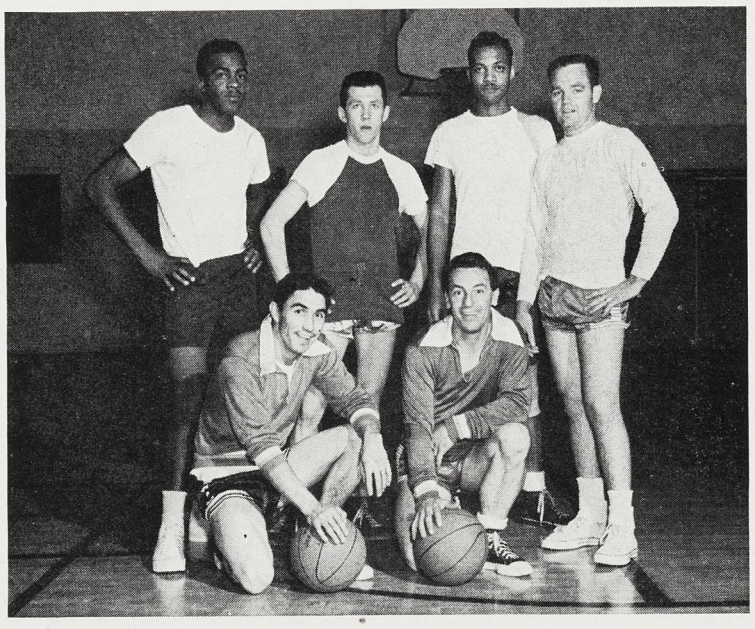
Basketball participation has increased steadily in the past few years, and this 1954 season promises to be one of the best. Enthusiasm is so high that for the first time in NRC history, says the comish, a limit has been put on the number of teams and players accepted for registration.

The teams pictured are from the day shift rosters. However, outlying facilities and other shifts have teams of equal prowess and a steady stream of basketball news is always available.

Ontario Norcrafters are proud of their top league team; Anaheim division hoopsters are holding a top spot in the Anaheim Industrial League; and night-shift stalwarts rank high in the Southwest Industrial League with victories over Hughes, North American, and Douglas.

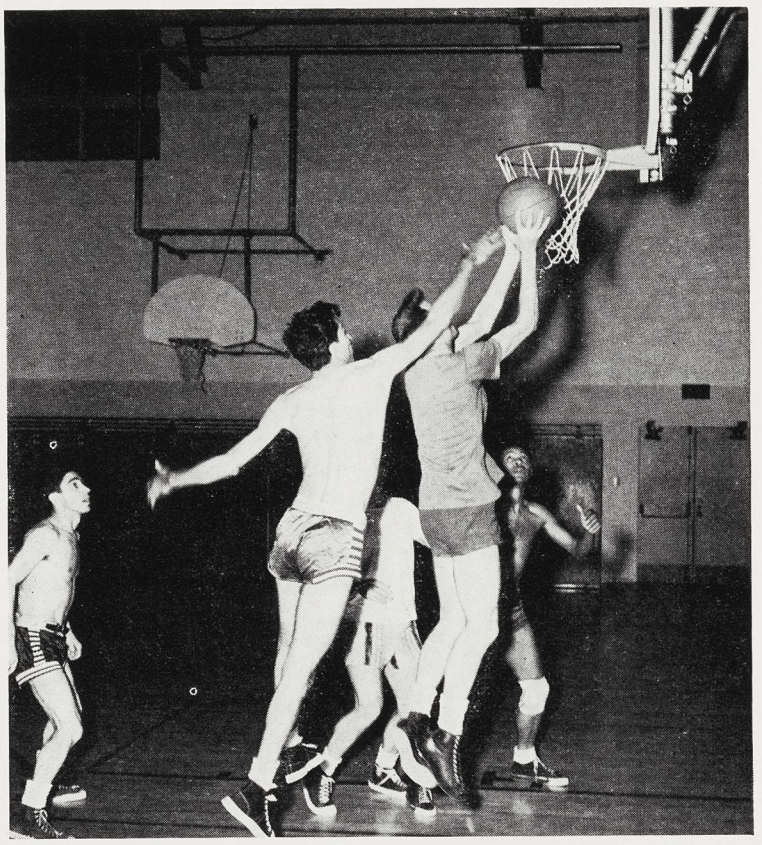
Not to be outdone, the NRC girls' basketball team, although it has only recently started league play, has chalked up a record to be proud of. Out of three league games played, it has downed both the Douglas Aircraft and the North American girls' teams. The girls lost their third game to the Emanons—a team composed of high school physical education instructors.

Teams are shown at the end of first round in league play. Winners of rounds one and two will play off to determine the contestants for the championship Scorpion vs. Snark league finale.

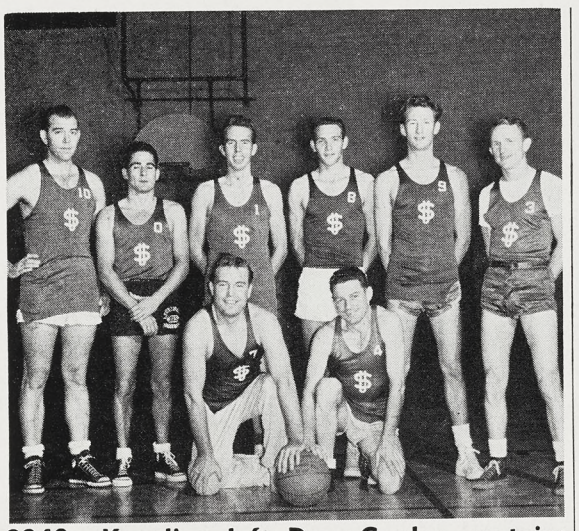


SCORPION LEAGUE champ of first round play is Department 5501. Standing, left: Charles Bosses; F. J. Sullivan; G. W. Fuller; J. A. R. Gauvin; Tom Stinson, captain; R. W. Parker. Front: Mario Dimeo; V. P. Alvarez. Not shown: Hoas; L. Smith; St. Cyr; Doyle.

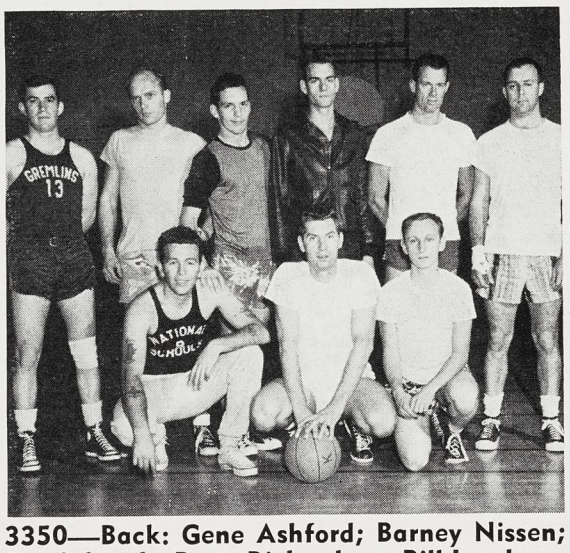
SNARK LEAGUE champion in first round competition is Department 5503. Members shown: kneeling, Ted Abeyta; John Solema, team captain. Standing: L. C. Jordan; Dick Cude; George Wells; Glen Combs. Not shown: McFarlin; Murray; Case; Baccaro; Valenzuela; Oram. (See action.)



ACTION TRACTION—in recent game between Departments 3350 and 5503. Dean Richardson, 3350, is shooting, with W. B. Valenzuela guarding. Alert and ready for business are, left: Ted Abeyta, 5503; Jack Slusser, 3350; and George Wells, 5503. Game ended in fifth straight win for 5503, which took crown in first round Snark loop play.

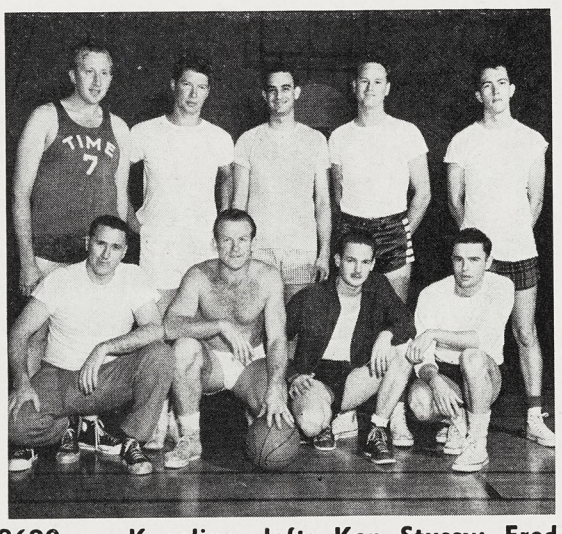


9340—Kneeling, left: Doug Gordon, captain; Jack Conroy. Standing, left: J. L. Chamberlain; Jerry Bradford; Bob Moncrief; Lorin Ogle; George Forbes; J. W. Potts. Not shown: John Campbell; Al Jones; Don Carmichael.

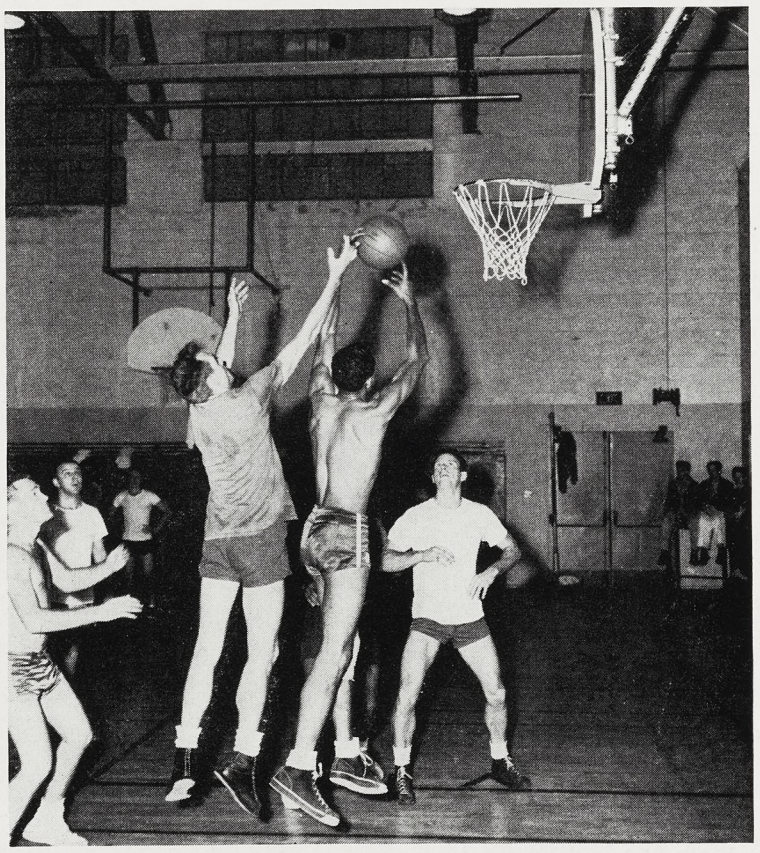


3350—Back: Gene Ashford; Barney Nissen; Jim Schmidt; Dean Richardson; Bill Landeen; Jack Slusser. Front: Quineon Harris, captain; Rocky Janasik; Jim Warax. Not shown: Cliff Snudden; Frank Liberatore; Chuck Hahn.

LYNWOOD—Kneeling, left: Ben Bajorquez; Anthony Piccirello. Standing, left: Art Meyers; Dick West; Reed Peterson, captain; Larry Norton; Ronald Allenback. Members not shown: John Fellows; Jim Mills; Thomas Dorch. Team took third in Scorpion play.



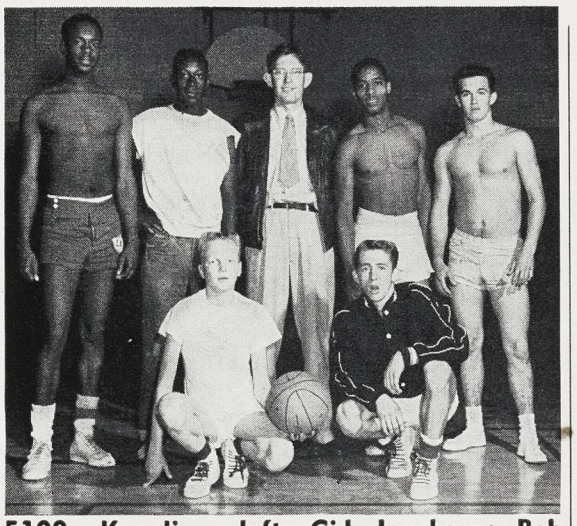
8620 — Kneeling, left: Ken Stussy; Fred Gehrke; Bud Wegnes; John Mignot, captain. Standing, left: Al Holz; Bob Marcotte; Bob Hughes; Spencer Williams; Bob Ludolph. Not shown: L. T. Stanley; Bud Powers; John DiRisio. For basketball information see PA&S.



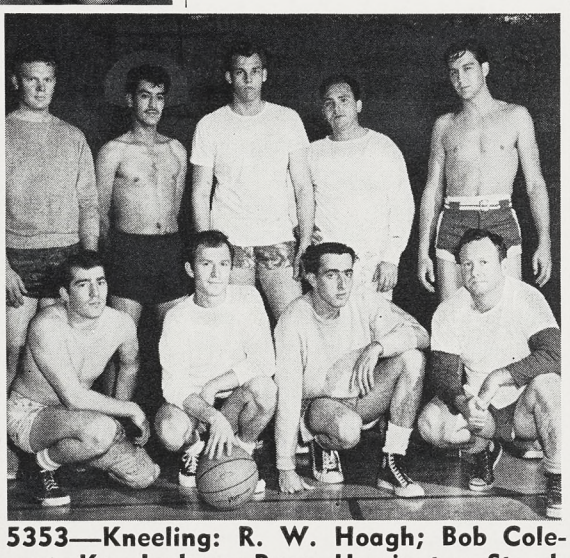
REBOUND BOUND—in another exciting play during 5503 vs. 3350 game are, left: Dean Richardson, 3350; and George Wells, 5503. Poised to take action (in camera view), are: Glen Combs, 5503; Jack Slusser, 3350; and Bill Landeen, 3350. Fast action of teams is typical of 1954 season play.

More NRC Cage Squads

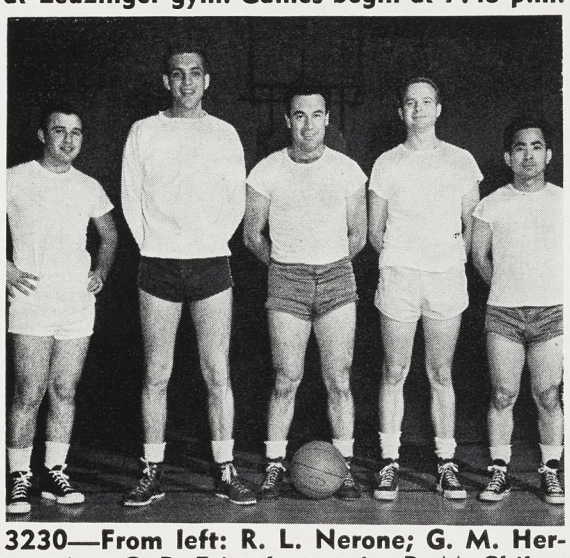
THE LADIES — NRC girls basketball team pictured, back row, from left: Mary Yoho; Dolly Nichols; Betty Talley, captain; Jeannie Thornton; and Doris Kaiser. Kneeling, left: Eileen Ballard; Lucky Hallinan; Donna Avazian; Violet Nichols; Marise Counsell; and Pat Crookston. Girls have played three games this season—won 2, lost 1. Team practice sessions are held each Tuesday at 7:30 p.m. at Ardmore playground.



5100—Kneeling, left: Cid Jacobson; Bob Buchan. Standing, left: Bill Levi; James Greene; Walter Knox, captain; Milton Woolridge; and Jack Thomas. Not shown: Bauswell; Bear; Jones; Schuyler; Tubbs; Williams; Ogle. See Scorpion league play on Mondays at Leuzinger gym. Games begin at 7:45 p.m.

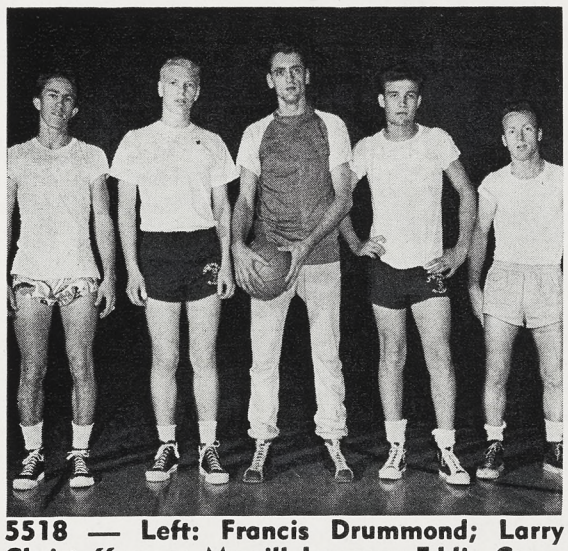


5353—Kneeling: R. W. Hoagh; Bob Coleman; Ken Jackson; Reese Harrington. Standing: Dick Ness, captain; Vic Garcia; Ed Hustedt; Don Gale; Roger Frischkorn. Members not shown: John Adams; Don Davis; Hank Hahn. Snark league plays each Thursday night—7:45 to 10:00, also at Leuzinger.



3230—From left: R. L. Nerone; G. M. Hertenstien; G. R. Fritzel, captain; R. M. Chiles; and M. H. Aragak. Team members not shown: Irwing Rzepnick, Fred Etcheverry, P. M. Moody, Ed Smith, Robert Miller, and Henry Loopen. Team took 5518 in first second round tilt, 22 to 16, in Scorpion loop.

3250—Kneeling: W. A. Revelle, captain; J. L. Johnson; L. C. Keene. Back row: E. T. Wiggins; G. N. Garrett; Jerry Milano; Osi Imai; C. R. Carlson. Not shown: C. H. Pinegar, B. P. Bayer, C. W. Cox and F. B. Bacus. Team won tilt with 8260 in second round upset. Both teams are competing in Snark league.



5518 — Left: Francis Drummond; Larry Christoffersen; Merrill Lawson; Eddie Casarez; Curtis Johnson. Not shown: David Williams; Jack Lull; Joe Young, captain; Clarence Williams, Armando Gonzales, George Winters, Frank Miller. Scorpion league team.

3142—Front: Joe Martinez; S. M. Zima; G. H. Booth. Back: Bart Matison; D. A. Younger, captain; Bob Williams; Frank Sandifold; and Loren Mitts. Members not shown: J. L. Williams, M. A. Machado, and Bob Benz. Third place Snark league hoopsters.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 1)
ADAMS AND VERMONT, Los Angeles. JIMMIE DE LA ROSA (5524-172, Ext. 2209), REpublic 24134. 12-1

WESTERN & WILSHIRE. (Route: Western or Crenshaw), Los Angeles. ALBERT S. FANELLI (5587-166, Ext. 1973). (12-1)

(Zone 3)
GARVEY & WACO ST., Baldwin Park. Garvey to Rosemead, turn at Firestone Blvd. to Prairie. Interested in car pool. ROY C. PERKINS (5524-83, Ext. 2209). 12-3

(Zone 5)
ARTESIA & 8TH STS., Santa Ana. Interested in entering or forming car pool. FRED B. TAYLOR (5506-131, Ext. 553 or 540), KI. 37309. 12-5 12-5

(Zone 9)
HIGHWAY 101 & DIAMOND, Redondo Beach. RAYMOND L. MERRILL (5524-335, Ext. 2209), FR. 45041. 12-9

(Zone 10)
MANHATTAN & PIER AVE., Hermosa Beach. JACK SHOR (5503-742, Ext. 2681). (12-10)

(Zone 12)
LINCOLN & OCEAN PARK, Santa Monica. LEWIS DARRELL KISER (5503-395, Ext. 2681), EX. 93305. 12-12

(Zone 13)
HAWTHORNE BLVD. AND 102ND ST., Inglewood. LAURA THORNBURG (5352-84, Ext. 1731). 12-13

OVERLAND & FARRAGUT, Culver City. A. A. CASTILLON (5222-325, Ext. 1919), VE. 8-1307. 12-13

VAN OWEN or Sherman Way, Reseda. SAMMIE L. DONLEY (5534-71, Ext. 2244), DIckens 3-8612. (12-13)

(Zone 14)
SANTA BARBARA & CRENSHAW. (Route: Santa Barbara, Crenshaw, 54th, West Blvd., Fairie), Los Angeles. FRANK KLINE (5586-14, Ext. 483), AX. 3-8963. (12-14)

7:30 a.m. — 4:15 p.m.

(Zone 1)
BEVERLY & VERMONT or Virgil, Los Angeles. NATE ALMOND (3250-183, Ext. 2777), DU. 9-3747. (13-1)

RIDES OFFERED

7:30 a.m. — 4:15 p.m.

(Zone 1)
ADAMS & VERMONT or Western. (Interested in car pool), Los Angeles. THOMAS LUCK (3250-196, Ext. 2101), RE. 1-3829. (13-1)

(Zone 3)
BEVERLY BLVD. & ATLANTIC, Los Angeles. Route: Atlantic, Florence, Crenshaw, Imperial Highway. HENRY M. MARTINEZ (5970-33, Ext. 2161). 13-3

(Zone 4)
TELEGRAPH & PAINTER. (Route: Telegraph or Florence, Downey, Imperial), Whittier. P. O. IVERSON (USAF, Ext. 1944), OX. 6-3804. (13-4)

(Zone 5)
EAST & ADELE STREET, Anaheim. S. MANLY (5920, Ext. 2618), KEystone 5-8007. (13-5)

(Zone 9)
REDONDO BEACH BLVD. & PRAIRIE, Torrance. Interested in car pool. WALT TEUBNER (3120-15, Ext. 1425). 13-9

(Zone 10)
SEPULVEDA & MANHATTAN BEACH BLVD. (Interested in car pool), Manhattan Beach. MARY AGNES AADNESEN (4100-22, Ext. 2331), FRontier 4-8456. (13-10)

(Zone 11)
AVIATION BLVD. & 119TH STREET, Inglewood. Interested in car pool. MARJORIE McCORMICK (8100-47, Ext. 2717), OS. 6-5958. 13-11

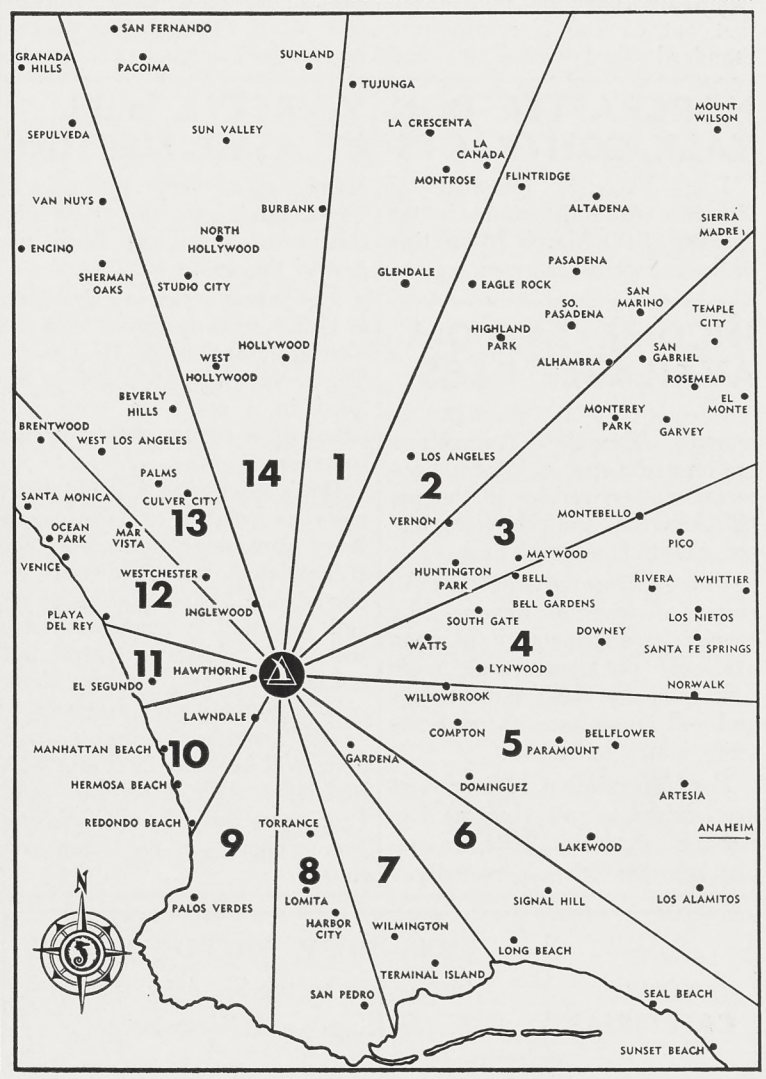
(Zone 13)
CHASE ST. & WOODMAN. (Interested in car pool), Panorama City. H. REED WAUGH (3424-88, Ext. 565), EMpire 2-3856. (13-13)

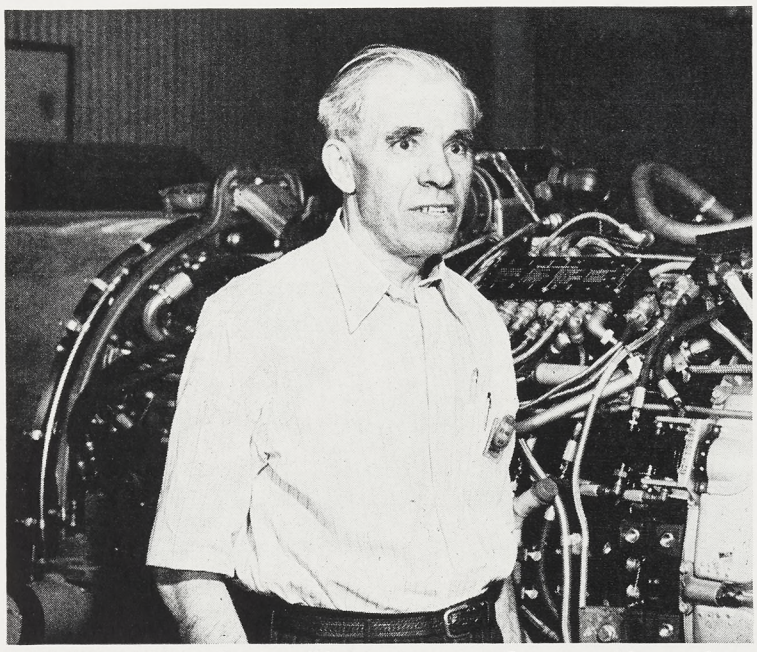
LA BREA & 64TH ST. (Would like ride or will be in car pool), Los Angeles. ANNETTE SCHNEIDER (8320-190, Ext. 2011), AXminster 3-0482. (13-14)

7:30 a.m. — 5:15 p.m.

(Zone 13)
SEPULVEDA & 77TH. (Interested in car pool), Los Angeles. JAMES W. RAMSEY (3230-553, Ext. 1873), OR. 2-1832. (14-13)

(Continued on Page 8)





AARON NEAL, Power Plant, is one of many Norcrafters with exceptional attendance records — 11 years with one absence. Aaron has worked on engines for more than 40 years, all told, including time on first diesels built.

Norcrafter Folk Proudly Point to On-job Records

One of the recurring phenomena that keeps Northrop News staff members clutching for telephones in mid-air is the reaction that displays itself whenever the newspaper prints a picture or pictures of Norcrafters with top-grade attendance records over the years.

The Norcrafters themselves take justifiable pride in their records, but their pride in achievement is often overruled by modesty, so that it is not the record-holders themselves who call, but their supervisors, or their friends!

Thus it was only a short while ago, when Gustav Liljeholm, night shift supervisor in Power Plant Installation, called to inform the News that Aaron Neal, of that department, had fashioned an enviable attendance performance by beginning his eleventh year with only one absence.

And a pleasant new wrinkle appeared when Tom Pratt, supervisor of Tool Cribs, waved a typewritten page and pointed out that out of 130 Norcrafters in Standard Tool Cribs, 29 had been neither late nor absent last year; and that four others had not been absent and had only one or two tardy punches on time cards!

Tom's pride in these people is shared by all who know them, and by the News, as well, which welcomed the chance to point them out. Their names follow:

Tom Brazil, Floyd Calcote, B. F. Duffin, Ruth Flippen, Max Glaser, A. A. Graf, C. B. Hall, Eleanor Hansen, Viola Hansen, and Ella Henderson.

C. L. Hudson, W. E. Johnson, F. M. Kitch, L. C. Leeds, Florence Lister, G. G. Lockbram ("our only man at Lynwood", says night shift supervisor Harry Timmerman), H. F. Martin, and Alice Mitts.

J. E. Ostrom, J. E. Peterson, Thelma Pierce, Charles Read, A. H. Richardson, Charles Russo, E. W. Seabold, F. A. Sordelet, and John Ussher.

Albert Varoujan, G. R. Wallace, L. R. Walls, G. F. Watson, and M. B. Young. Ray Bostic, also on the list, has left Northrop.

NORCRAFTER DON VIVRETTE WILL TALK CONTRACTS AT ASME MEETING

Don Vivrette, manager of Contract Administration, is the speaker at the March 10 meeting of the Industrial Engineering and Management lecture forum series, talking on the "Administration of Contracts With the Armed Forces".

The forum series is being held at UCLA in cooperation with the American Society of Mechanical Engineers. Vivrette's talk is the third in a series of seven, all based on a forum theme of cost reduction.

Don's discussion will highlight costs as related to USAF and Navy contracts; how costs are accumulated, compiled and reported as a basis for establishing and negotiating contracts. He will also describe forms of military contracts and the channels for submitting proposals.

The meeting, beginning at 8 p.m., will be held in Room 147, Business Administration and Economics Building, UCLA campus. There is no admission charge.

INCOME TAX Q-A AVAILABLE PA&S

Effective today through tomorrow, Thursday, Norcrafters are offered a special information-on-tax-matters service in Personnel Activities and Services offices, Plant One and Three.

Two representatives of the Director of Internal Revenue, by special arrangement, have been available for questioning from 8:00 a.m. to 4:45 p.m. today, and will be on hand through the same hours tomorrow.

For information, Norcrafters are advised to call "Income Tax Service", extension 2784, or contact representatives personally.

AT OUR CAFETERIAS — **MINE HOST, FREDDY WOLFE,** invites you to try his daily specials—fit for Kings—and Norcrafters.

Fixed Price

(Continued from Page 1)

a mock-up—a tremendous feat in itself. The advanced mock-up had to be sold to WADC mock-up board in September of last year . . . and it was, with a bare minimum of squawks.

The planning—by Norcrafters of Engineering and Industrial and Plant Engineering—began to go on paper in March of last year. By the last part of June the airplane was entering the assembly line.

Cooperation from vendors all along the line was excellent, with Rheem Manufacturing Company meriting highly favorable comment. Alex Morrison, former NRC prexy, came in for a share of felicitations for expeditious handling of procurement in Advanced Production Materiel.

Essentially the operation was a team project, involving almost everybody in several divisions. But individual Norcrafters playing prominent parts included Bill Page and Keith Wiesley, Master Planning; Ross Rogers, M. E. Butler, and Rex Thornhill, Advanced Production; C. J. Druliner, Advanced Production Inspection; and Wally Lien and Jim Thomson, F-89 Project Office.

Production Norcrafters point out that the performance on the first airplane will be a boost to the fixed price program, first such program on the Scorpion.

(Ed. note — former Scorpion contracts have been cost plus fixed fee, whereby the customer pays for the actual cost of producing the airplane, plus a certain fixed sum. The sum is based on the original estimated price; the fee is no larger, even if this price is exceeded. In fixed price incentive contracts, the manufacturer quotes a figure for the entire contract, and is paid that sum at the completion of the contract, no matter what the cost of production.)

With this type of incentive contract, top personnel point out, it is imperative to look for savings, which will benefit all Norcrafters, and help to get future contracts.

Though there still remains a formidable schedule to meet, production personnel are confident that with cooperation like that shown on the first airplane —and on previous projects like the modification program last year—the contract will be successfully completed.

REGISTRATIONS STILL IN ORDER FOR DANCE CLUB

Registrations are still being taken for NRC Ballroom Dancing classes. All Norcrafters and their families are eligible to register.

Instructions will be given in the various types of popular American and Latin dances by Bill Williams, director of the Bill Williams Dance Studios. Classes for beginning, intermediate and advanced pupils are now being offered.

Classes will be conducted every other Saturday evening commencing March 6. Cost for the five-week course is $2.50 per person, payable at time of registration. Registrations may be made at PA&S offices, Plants I and III.

Ontario Job Training

BURNISHING CLASS SCENE shows one of Ontario's indoctrination classes being presented by Industrial Training Administration. From left: Harold Hartz, Instructor Clem B. Martin, Richard Niss, Herbert Horne, and Ronald Brubaker. Class is one of several in which about 300 Norcrafters have been instructed in various phases of assembly.

GETTING READY to use Northrop "Quick Heat Gun" to explode duPont rivets is group of trainees shown. From left: Ray Orosco, Mark Walser, Hillery Mulligan, Instructor Clem Martin, Martha Porterfield, Robert Lemons, and Carleen Fry. This class at Ontario was instructed and certified in installation of cherry rivets, duPont rivets, huck lock bolts, and huck stump bolts. Process manual is group's "bible".

Ontario Basketeers Hurl All-Plant Hoop Defiance

Ontario facility hoopsters, following their challenge voiced to all other Northrop basketball teams, backed their defy with a decisive win in the first answering match, played against Hawthorne's Finance division.

Clashing in Chaffey Junior College gym on Thursday, February 4, the Ontario Norcrafters defeated Hawthorne's Finance, 60 to 44.

Next in line to taste defeat from the Ontario cagers was the Anaheim division team. Tilt date was Thursday, February 18, and the score was: Ontario 55, Anaheim 35.

The Ontario team has taken four out of five games played in the Ontario City League.

MUSEUM CURATOR TO LECTURE ON TROPICAL FISH

Tropical Fish clubsters will meet tonight, Wednesday, at 7:30 p.m. in the NRC Clubhouse for both a talk and a film on the realm of fish.

Dr. Howard R. Hill, curator of the Los Angeles Museum and famous the world over as a marine zoologist, specializing in Pacific fish, will speak on the subject "Queer Fish From Here and There".

MARINERS WILL HOST FRIENDS AT CLUB DANCE

NRC Mariners of the good ship Sea Maid are planning a dance —open to all Norcrafter friends and guests—for Saturday night, February 27, in the NRC Clubhouse.

The fun will serve a good purpose, as reported by May Hawkins, Mariner commissioner. Fifty cents per person admission charge will go into a fund to help send Sea Maid Mariner Scouts to camp in July.

Steve Green and his band will be on hand with the rhythm.

Also scheduled is a color film to be shown by Mrs. Kay Ragland, secretary of the Los Angeles Aquarium Society.

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

CLOTHING, slightly used, good condition, 3 dresses size 12; 1 dress size 34; 2 blouses and 1 suit; good materials, bought at better shops. Will sell very reasonable. OS. 6-1220. A

PIANO, Spinet grand, beautiful mahogany, like new, original cost $1095 plus tax, will sacrifice $495; ELECTRIC ROASTER, Westinghouse automatic, like new, complete with lift-out tray and pyrex dishes, original cost $69.95 plus tax, sacrifice for $39.95, FRED ANDERSON, WAlnut 2791. A

REFRIGERATOR, Stewart-Warner 8 cubic foot , self-defrosting, deep freeze compartment, ice trays, vegetable crisper, must sacrifice, $50. R. J. ARBICOR, FRontier 4-2272. A

HOLLYWOOD BED, $25; BABY BED, $15; Eugene HAIR DRYER, $40; 6 quart PRESSURE COOKER, $15; floor LAMP, $5. ROLAND L. BROWN FR. 2-0955. A

MIKE 0" to 1" Starrett, like new, $10. A. A. BEYER. Reply in writing to Northrop News, Box 1501. A

OUTBOARD MOTOR, 5 h.p. See Bee, ran 1½ to 2 hours, $100. WM. BELFORD, DU. 3-3668. A

RIFLE, Winchester model #94, new in 1951, has only had one box of ammo through it, also saddle scabbard, $60. W. A. COOK, OX. 5-4010. A

FREEZER CHEST, 12 cubic foot Philco, 1952 model, like new, 5-year guarantee, $485, original price, $300, or make offer. JAMES L. CURE, OS. 6-9462. A

FORD, 1951 Crestliner, bronze and brown, overdrive, heater, radio, seat covers, premium tires and undercoat (special equipment — Mallory ignition, Offenhauser manifold, Lincoln carburetor, etc.), $1200. RICHARD DICKASON, FRontier 5-3938. A

WASHING MACHINE, Easy Spin-dryer, A-1 condition; TRAILER, heavy-duty 2-wheel, new 6-ply commercial tires, make offer. H. E. EMBREY. Reply in writing to Northrop News, Box 1502. A

NASH, 1947 club coupe, radio and heater, leather seat covers, $250. MRS. L. R. EIDE, ME. 4-1209. A

HOUSE, 2-bedroom, Manhattan Beach, corner fireplace, open beam ceilings, view, high and dry, $3000 down — $9750 full price. F. EMORE, FRontier 2-6167. A

WASHER, Easy Spin-dryer, semi-automatic, excellent condition, seldom used, $50. ALFRED M. FITE, L.B. 54435. A

HOUSE, 2-bedroom, stucco, corner lot, garbage disposal, completely fenced back yard, patio, close to schools, busses, aircraft industries, 2½-years old, G.I. resale, no assessments, $9750. H. L. FRITSCHE. Reply in writing to Northrop News, Box 1528. A

BUICK, '46 Roadmaster, complete overhaul, clean, excellent condition, must sell, C. J. FORMANECK, NEwmark 1-7508. A

CHROME BREAKFAST SET; BABY BED; ROLL-AWAY BED; DRESSER, large mirror; small GAS HEATER; large GAS HEATER with pilot; DIVAN with two chairs, like new; all reasonably priced. SARAH HURT OS. 5-6352. A

MG, 1952 Mark II, radio and heater, E. T. HAMPTON. Reply in writing to Northrop News, Box 1503. A

REFRIGERATOR, Coldspot 8 cubic foot, new unit, good condition, $90; 5 cubic foot DEEP FREEZE, excellent condition, overhauled unit, $80. R. F. KALEY, El Segundo 1912J. A

TWIN STATIONARY TUBS with stand and some fittings, very good condition, $5. WALTER A. KUEGEMAN, OS. 6-1983 or OS. 6-9989. A

G. I. JEEP, real sharp, clean, major overhaul 625 miles ago, $400. GLENN LANPHEAR, El Segundo 1091. A

MOTOR SCOOTER, 1952 Powell, good condition, $75. A. S. McDONALD. Reply in writing to Northrop News, Box 1504. A

BASSINETTE, like new, liner and pad, with complete layette and many extras, $100 value — $35. LEE E. MEAD, ORchard 7-9809. A

MATERNITY CLOTHES, skirts, dresses, etc., size 14-16, good condition, $15; black suede anklestrap SANDALS, high heels, size 7½, worn twice, $3.50. MARIANNE McMILLAN, ORchard 1-4298. A

STAMPS, miscellaneous assortment, H. A. MUSSENDEN, PLymouth 5-6043. A

NEON SIGN, 7½' high, 30" wide, has timer clock with complete unit, $100. E. L. MURPHY, PL. 5-0641. A

FOR SALE

WEDGEWOOD STOVE, 4 tabletop burners, grill, oven, broiler, $75; Servel gas REFRIGERATOR, new thermostat, $100; both in good condition, and will sell together for $150. RON NESWALD, AR. 3-9363 mornings or week-ends. A

MOTORCYCLE, 1949 Harley-Davidson "61" OHV, one owner, 28,000 miles, top overhaul at 26,000 miles, no accidents, excellent condition, many extras, $370 or reasonable offer. NANCY PETERSON, OS. 5-6544. A

FORD, 1942 V-8, one-half ton pickup truck, rebuilt engine, 1954 license plates, make offer. DEANE PAPAS, OR. 5-2842. A

PROJECTOR, 16mm Keystone, used, good condition, with case, $50; Silvertone RADIO, RECORD PLAYER and WIRE RECORDER combination console, $75. T. S. RICHARDSON. Reply in writing to Northrop News, Box 1505. A

CHEVROLET, 1936 4-door, good heater, runs good, $35. M. ROBINSON, TOrrey 3-5005. A

RUG with pad, size 12' x 12', rose wool frieze, like new, $85. GLADYS SULLIVAN, PL. 1-6160. A

MERCURY, '50 2-door, white sidewalls, radio, heater, original owner, excellent condition, expensive seat covers, $995. WALTER SZELAGOWSKI, PL. 3-6193. A

MERCURY, '46 2-door, good condition, radio, heater, $325. MARION P. STUBBS, OSborne 6-0489. A

BUICK, 1940 Super, 4-door, w/w tires, radio , heater, overhauled motor, trans., brakes, 70,000 orig. miles, $225. EX. 8-4548, evenings. A

BUICK, 1939 Special 4-door sedan, good mechanical condition, radio heater, trailer hitch, tires like new, fine transportation car, $99. JOE SLAFER, OR. 2-9363. A

UPRIGHT FREEZER, Manitowoc sub-zero 18½ cubic foot, used 8 months, cost $625, will take $80 for my equity — buyer assume balance of $198, at $28.65 per month. C. A. SHEWMAKER. Reply in writing to Northrop News, Box 1506. A

WASHER, General Electric, good condition, $30. D. E. TAYLOR, PL. 6-3228. A

FORD, 1952 4-door, Customline, Ford-O-Matic, radio, heater, 2-tone blue, w/w tires, dual headers and exhausts, A-1 condition, can arrange financing, JACK E. WHITE, FRontier 2-4568. A

SCROLL SAW, 16" Delta with 1/3 h.p. motor, belts, pulleys, attachments and accessories included, reasonably priced, M. G. WHITE, FR. 2-4700. A

PUPPIES, 3 Cocker Spaniels, 7 weeks old, thoroughbred, black championship stock, male or female, registered with AKC, papers furnished with each pup, DICK WHITE, OSborne 6-3980. A

FORD, 1948, 4-door, radio, heater, dual pipes, new tires and seat covers, $595. JOE WATT, FRontier 5-1753. A

CADILLAC, 50-62, like new, powder blue, fully equipped, 1954 license tags purchased, $2275. MILLIE WITTMAN, ME. 9-3296. A

PONTIAC, 1949, 2-door sedanette, w/w tires, radio, heater, seat covers, Hydra-matic with dual-range, mechanically perfect, must sell — make offer, BERNIE FRANKE, FRontier 4-0044. A

REFRIGERATOR, Servel, 1949 model, 9'8", big freezing compartment, perfect condition, guarantee of 6 more years, $100; Gaffers & Sattler GAS STOVE, 1949 model, big oven, separate broiler, grill, automatic timer, needs a good cleaning and minor repairs, $100; cash, EILEEN BALLARD, OS. 6-1019. A

PRESSURE PUMP, 10 h.p. electric, for sprinkler irrigation, will irrigate up to 20 acres, 440V 3 phase, used 4 months, 4" discharge pipe included, $225, or make offer. A. A. HOCK, OSborne 5-2078. A

PLYMOUTH, 1953 Cranbrook, 4-door sedan, radio, heater, very low mileage, very reasonable, sacrifice, BENJAMIN BALLINGER, LO. 6-9619. A

COFFEE SERVICE, dragon design, hand painted, never been used, $5. BERNARD BARTON, ARizona 71539. A

BUICK, '53 Roadmaster, 2-door Riviera, radio, heater, electric windows and seat power, steering and brakes, Dynaflow, $3195. WARREN A. MEYER. FR. 5-5524. A

FURNITURE—Gray bed-divan and matching chair, very good condition, original cost $325; $125. ROBT. J. NICKELSON. Reply in writing to Northrop News, Box 1519. A

FOR SALE

BUICK, '53 Riviera Special, red with black top, hardly used, 5000 miles, conventional shift, directional signals, white side walls, deluxe steering wheel, new license, $2095. TRUE W. OSBORN, OS. 6-8679. A

MOTOR SCOOTER WHEELS, three for Cushman model, tires, tubes, spindles and knee action mounts, tires in excellent condition, suitable for building small utility trailer or boat trailer. GEORGE BRANCH, OS. 52594. A

HOUSE, 3-bedrooms, w/w carpeting, water softener, garage attached, located in Manhattan Beach, G.I. loan, $1500 down; total price $10,500; will take second on balance of equity in house, approximately $4000. MICHAEL C. ROMANO, FRontier 2-8019. A

MATTRESS, Englander, Red Line innerspring, full size, excellent condition; full size coil springs, both for $20. E. W. SCOFIELD, OR. 16692. A

CHEVROLET COUPE, 1933, motor and body in good condition, good work car. OS. 55745 after 5 p.m., F. R. EASTERLING. A

PARKA, Alaskan B-9, size 40, new condition. J. P. WOOTAN, JR., ARizona 7-7068. A

FUR COAT, mouton lamb, good condition, size 12-14, original cost $225, will sell for $75. J. A. NIEMEYER, FRontier 2-9058. A

TV, 1953 Motorola 17" table model, $125. T. S. EASON, ME. 48429. A

DE SOTO '52 convertible, full custom tailored white leather interior, radio and heater, extra clean and priced to sell; private owner, 9:00-12:00 a.m. Phone OR. 73243, JOSEPH J. MANCUSO. A

BOAT, 11' Hydroplane class "C," $35; Buescher tenor SAXOPHONE, like new, $200. J. H. SOUTHWORTH, PL. 18919. A

CHEVROLET coupe, 1937, in good condition, $90. T. E. GREENE. Reply in writing to Northrop News, Box 1517. A

CHEVROLET coupe, 1937, new seat covers, excellent transportation, very good condition, $100. AUDREY NICKERSON, OR. 74365. A

BINOCULARS, size 8x32, made in France, very powerful, insured for $125, $60. JACK MEIER, PL. 6-6508. A

CHEVROLET, 1951 Fleetline, radio, heater, whitewalls, $100 for equity. A. E. MITCHELL, TWinoaks 5156. A

FORD, 1951 V-8 Fordor, radio, heater, A-1 condition, $1050. V. HIGBIE. Reply in writing to Northrop News, Box 1515. A

ELECTRIC TRAIN, Lionel "027", various cars, switches and track, miscellaneous pieces; half the original cost of $200 will take this. EDWARD E. DUNN, L.B. 57753. A

FURNITURE, modern sectional davenport, 2-piece, and matching chair, 2 years old; must sacrifice. MU. 2409 after 6 p.m. A

SPORTFISHING BOAT, 21' long, 8' beam, transom type, good condition, 115 h.p. Chrysler engine, two bunks, $795. K. E. KUMMERFELD, NEwmark 5-2513. A

RIFLE, 30.06, 10-shot semi-automatic, 30 percent recoilless (floating barrel), like new, original cost $200, will sell for $100. DON GOODWIN, TErminal 46131. A

PONTIAC 4-door sedan, 1950, radio and underseat heater, low mileage, see to appreciate, $998. J. D. GROVE, FRontier 25997. A

PUPPIES, Boston terrier, AKC registered, reasonable. GLADYS HICKS, PL. 4-8510. A

CHEVROLET, 1947 convertible, clean, motor recently overhauled, brakes relined, new battery, top excellent, $435. FRANK C. HOLLISTER, OR. 1-8524. A

LUGGAGE TRAILER, good condition, $40. T. C. VAUGHNER, NE. 8-6367. A

JEEP PARTS, cheap. R. E. DAVIS, PL. 2-2498. A

SKIN DIVE SUIT, two-piece, ankle to neck type, $20. TOM CULBRETH. Reply in writing to Northrop News, Box 1529. A

FORD '52 V-8 Custom club coupe, light green, factory radio and heater, clean, perfect mechanical condition, $1475. THOMAS W. BLACKMORE, OX. 31396, Whittier. A

REFRIGERATOR, GE, old style with unit on top, excellent condition, $35. ORchard 2-8971. A

MOTOR, ¼ h.p., $3; #436 STARRETT, $5; console RADIO, A.M.&S.W., $15; TUBE TESTER, $10; SIGNAL TRACER, $10; #125 Hickok, V.T.V.M., $35; no junk—all perfect. A. L. MacKENZIE, FRontier 4-0069. A

HOUSE, 2-bedroom, furnished, in Naples near yacht harbor and beach, on large corner lot, fenced yard, fireplace, hardwood parquet floors throughout, 3-years old, $12,500 — $2500 down will handle. E. A. GRISWOLD, FRontier 2-6183. A

CAMERA, Eastman view, 8x10, good condition, equipped with variable lens, diaphragm and Packard shutter, case and holders, $55; Reiss TRIPOD with Graflex tilt head, $15; photographic LENS, triple convertible, Turner-Reich lens, very good condition, $65. RICHARD M. BROWN, LOgan 5-6790. A

FORD, 1953 Consul, very clean, like new, take over payments on balance, will take best offer on $1200 equity. G. W. KROMER. Reply in writing to Northrop News, Box 1526. A

PARAKEET NEST BOXES with sliding bottoms, $6 per dozen. RAY HUBBARD, NEwmark 8-6238. A

FOR SALE

HOUSE, 3-bedroom, furniture optional, near Norwalk Square, fenced yard, GI resale by owner; $10,000; PIANO, Busch & Gerts, upright, mahogany, excellent condition, $100; electric SEWING MACHINE, apartment size, $15. R. M. CORBETT, TO. 4-5782 after 5:00 p.m. and Saturday and Sunday. A

CHEVROLET, 1952 Bel-Air, two-tone coral and white, radio and heater, Powerglide, excellent condition; SOFA and matching CHAIR, reasonable. J. M. HIRSHORN, WYoming 5175. A

LINCOLN, 1949 2-door deluxe, radio and heater, perfect condition, $700 cash. PAUL ATKINS, ORchard 2-6133. A

PLYMOUTH, 1941 deluxe 4-door, very good condition, new brakes. Must see to appreciate, $200. JOHN KABEL. Reply in writing to Northrop News, Box 1530. A

UTILITY TRAILER, all steel, two-wheel, 16" tires, ball hitch, no license; 4' x 6' bed, $25. BILL SWINDLE. Reply in writing to Northrop News, Box 1522. A

PLYMOUTH, 1952 Cranbrook club coupe, radio and heater, 27,000 miles, very clean, $1145. L. A. MASSENGILL, FRontier 5-6400. A

TRUNK, 22" x 36" x 21", only 2½-years old, all metal, removable tray, $15. ROY J. KITTELSON, ORchard 2-1882. A

CHEVROLET, 1946 Fleetline Aero sedan, 2-door, black, radio and heater, fully equipped, good tires, $490. E. F. RAFTERY, CL. 6-1688. A

PLYMOUTH, 1953 club sedan, over-drive and other extras, in excellent condition, $1272 cash. WALLY HENRICH, FRontier 4-5412. A

AIRPLANE, 1946 Swift-125, licensed to December 1954, heavy case engine, 20 hours since major overhaul, GE radio, new seat covers, new interior side panels, pneumatic tail wheel, rock wool insulation, $2100. R. CONNELY, ORegon 3-6548. A

HOUSE, 3-bedroom, almost new, carpets, drapes, Playa del Rey area, for sale by owner, 4½ per cent mortgage, $18,900. O. PHILLIPS, ORchard 2-6452. A

SKI BOOTS, lady's Edwin Clapp, size 5C, excellent condition; man's figure SKATES, size 8, black one-piece Canadian blade, excellent condition. R. E. BOWMAN, FRontier 2-1236. A

TRUCK, light one-half ton, good running condition, $65. FR. 2-4474 after 4:30 p.m. A

MOTORCYCLE, Harley-Davidson '45', fair mechanical condition, $75. JOE R. CAPPS. Reply in writing to Northrop News, Box 1520. A

DAVENO BED with matching chair, rose colored, frieze, $85. M. NESS, OS. 6-4720. A

FREEZER, 14 cubic feet, cabinet model, cost $577.75; $150 for my $255.65 equity, monthly payments $23 to Bank of America. G. B. COPELAND, NE. 1-5588. A

CAMERA EQUIPMENT, Anniversary Speed Graphic, Ektar lens, like new, Kalart rangefinder, Heiland flash, 2 extensions, Wollensak wide angle coated, with solenoid, holders and pak adaptor, Craig tripod, filters and carrying case, $195. E. H. STEINMEYER, DUnkirk 8-0295. A

NASH, 1953 Statesman 4-door, excellent condition, 12,000 miles, must sell immediately, will take $300 for my equity. HELEN BAKER, L.B. 715-58. A

HEATHKIT MULTIMETER, small pocket-tester size, new condition, $7. ROBERT L. LONERGAN, OS. 6-0336. A

STEAM IRON, $7; 4" x 5" R.B. Graflex CAMERA, 180 MM Carl-Zeiss Jena Tessar lens, 18 septum cut film magazine, $75; 4" x 5" Speed Graphic outfit complete, $275. R. L. WOLFORD, OR. 7-7914. A

HOUSE, 2-bedroom, newly decorated, venetian blinds, separate 22x22 garage, close to Northrop, $8000, about $1000 down, or will lease $75 month—year at a time, possession about May 1. C. R. HOLLOWAY, MEnlo 4-2600. A

WANTED TO BUY

CAR RADIO for '53 Plymouth, G. A. ROYSE, OS. 5-3811. B

LOT, Hermosa Beach or Manhattan Beach area, large enough to build duplex, price as reasonable as possible, FRontier 4-0359. B

AUTOMATIC WASHER, Whirlpool, 1952 or 1953 model, in good condition, prefer taking over present payments but can handle with cash if price is right, J. M. PHIPPS, FR. 5-2303. B

SPRINGS for single bed or springs and mattress, BOB REITER. Reply in writing to Northrop News, Box 1508. B

STALL SHOWER, bathroom fixtures and equipment, C. M. MEADORS. Reply in writing to Northrop News, Box 1507. B

RECORDS, 45 rpm; BOOKS on Golf, LARRY LAUER, OR. 1-3798. B

REVOLVER, 25 caliber Colt, automatic, or equivalent, good condition. "HOPS," CR. 58256. B

MERCURY 1941 convertible or hard top; price must be reasonable and terms if necessary. C. E. BOWERS, OS. 6-9064. B

SHOT GUNS, 12-gauge, pump automatic, or over-under for $50 or less. FRED HOECHSTETTER, TErminal 3-8806. B

ELECTRIC CLOTHES DRYER, any make; cash deal; must be reasonable. C. R. SAMMONS. Reply in writing to Northrop News, Box 1514. B

WANTED TO BUY

HOUSE, two or three bedroom, within city limits of Long Beach, up to $1000 down, must be low monthly payments. J. R. BREWSTER, L.B. 355-972. B

MOTORCYCLE, 1949 or 1950 Harley-Davidson '74', good condition, reasonably priced. JOE R. CAPPS. Reply in writing to Northrop News, Box 1531. B

TYPEWRITER, Portable or upright, good condition, reasonable. A. P. KIOLBASSA, WEstminster 7761. B

FOR TRADE

CAR RADIO, Philco, and a Southwind gasoline HEATER; will trade for ½ h.p. electric motor or electric hand motor. S. W. SPOONER. Reply in writing to Northrop News, Box 1516. C

EXCHANGE—Blind lady will exchange storage for use of piano; will take exceptional care of piano. ELSIE HICKS, ME. 4-4766. C

KAISER 4-door sedan, 1948, good condition; trade for motorcycle in good condition. PAUL SERAFIN, OR. 2-7328. C

ELECTRIC MOTOR, 3 h.p. Reuland, 3-phase, 220-440; will trade for 1½ or 2 h.p. single-phase electric motor. ARNOLD HAMMERVOLD. Reply in writing to Northrop News, Box 1513. C

REVOLVER, Smith & Wesson 38-caliber, older model but in good condition, holster included; will trade for labor and material on a 1929 Ford roadster top. Call Henry, PL. 6-4952 after 4 p.m. C

FORD ENGINE, full race, just rebuilt, 138 mph, class "A" roadster; trade for 17" TV or larger. ED HUSTEDT, RE. 41350. C

TELEPHOTO LENS, Nikkor 135cm F 3.5 coated lens, like new, never used, thread type mount, trade for one with bayonet type mount, to fit Nikon 35mm camera. M. L. MEYERS, ME. 4-4815. C

OLDSMOBILE (98)—1948 club sedan, extra clean, Hydramatic, radio and heater, w/w tires, or 1952 MORRIS MINOR 2-door sedan, 7000 miles, like new; will trade as down payment on house. A. A. HOCK, OS. 5-2078. A

FOR SALE OR TRADE

AUTOHARP, never played, $50, or will trade for Spanish guitar. PL. 4-4384. M

ELECTRIC RANGE, Westinghouse, high oven, new wiring and cable, $12.50 or trade for anything. G. W. KROMER. Reply in writing to Northrop News, Box 1521. A

CHINCHILLAS, 4-pair, plus 2-males, cages and tattooing equipment, will trade for real estate or ? MILLIE WITTMAN, MEnlo 9-3296. M

SAIL BOAT, well maintained, "Dolphin class," 15½', sloop rigged, sailing dory, two sets of sails, $165 or $210 with two-wheel trailer equipped with loading rollers, will trade for "Penguin," PHILIP MALLEN, EXbrook 8-6431. M

SINGER, '52 4-place open auto, good condition except for top, may take trade of older one-half ton pickup as part payment, $1050. D. P. MacMANUS, OR. 8-5178. M

STUDEBAKER, 1937 sedan, has 1954 license, $50, or trade on 8mm movie projector or Mustang motor scooter, PL. 5-6610. M

DODGE, 1953 one-half ton pick-up, deluxe cab, fluid drive, heater, low mileage, will take a good used car for my equity, see at parking lot Plant One, 4:45 to 1:15. PAUL J. TELLES, Jr. Reply in writing to Northrop News, Box 1523. M

HOUSE, 4 years old, 2-bedroom, in Arlington, Texas, (midway between Ft. Worth and Dallas) in the Chance Vought-Convair area, will trade for equity in comparable home in Los Angeles area, or will sell. MELVIN BEST, ORchard 1-3075. M

LOT, in center of Lancaster, 25' x 100', will trade for 1950 or 1951 car or as part payment for residential building lot in Whittier or for a blond spinet piano. PAUL Y. HOMER. Reply in writing to Northrop News, Box 1527. M

HI-FIDELITY SPEAKERS; tape, disc and wire RECORDERS; AMPLIFIER; TV CHASSIS; semi-automatic PISTOL, Luger, price open or will trade for building materials. W. S. COOK. Reply in writing to Northrop News, Box 1528. M

DE SOTO, 1953 Powermaster 6, 6-passenger coupe, 8000 miles, radio, like new, will take 1948 4-door sedan, preferably De Soto, for equity. ETHEL G. SIMPSON, OSborne 6-5425. M

FREE

FREE DIRT, approximately 15 cubic yards, vicinity of Lincoln Blvd. & Manchester Blvd., W. LAMOREY, ORchard 2-7746. D

RENTALS OFFERED

APARTMENTS, new, deluxe 1-bedroom, unfurnished, adults only, unusually large rooms, garage, disposals, laundromat, bus service, North Inglewood, $75 and $85 per month. C. B. SPENCER, OR. 2-3169. E

HOUSE, 2-bedrooms, mostly furnished, prefer two men, $80 month, house 1½ years old, SARA M. O'DELL. Reply in writing to Northrop News, Box 1509. E

(Continued on Page 8)

GOING MY WAY

(Continued from Page 5)

RIDES OFFERED

3:45 p.m. — 12:15 a.m.

(Zone 6)
PACIFIC COAST HIGHWAY & 2ND ST., Huntington Beach. Route: Pacific Coast Highway, Lakewood, Rosecrans, Crenshaw. E. C. GALANTE (5373-493, Ext. 547). 16-6

3:45 p.m. — 1:15 a.m.

(Zone 5)
STUDEBAKER & CARSON, Long Beach. Lakewood district. E. D. DENNIS (5534-425, Ext. 2465). 17-5

4:45 p.m. — 1:15 a.m.

(Zone 1)
BEVERLY & ALVARADO, Los Angeles. Route: Hoover, Slauson, West, Prairie. ARTHUR MOREIRA (5508-494, Ext. 2766), DU. 43894. 18-1

HOLLYWOOD BLVD. & WESTERN, Hollywood. DON GLOVER (5503-296, Ext. 2681), HO. 54609. 18-1

HOLLYWOOD BLVD. & VERMONT, Los Angeles. ANDRE R. DORLET (5586-657, Ext. 1973), NO. 3-8680. (18-1)

(Zone 2)
VENICE BLVD. & FIGUEROA ST., Los Angeles. DONALD JOHNSON (5504-419, Ext. 1424), AD. 46001. 18-2

(Zone 3)
GLENDORA & MAPLEGROVE STS. (Want another driver to share car pool anywhere in W. Covina or Puente), Puente. GEORGE T. COSTA (5503-238, Ext. 2467), Edgewood 6-5204. (18-3)

(Zone 4)
IMPERIAL & MAIN, Los Angeles. Route: Main, Imperial & Crenshaw. MICHAEL ADAMS (5501-663, Ext. 2200), PL. 5-2029. 18-4

(Zone 5)
PARAMOUNT BLVD. & MADISON ST. (Can take four riders), Paramount. RAY T. CHITTUM (5587-274, Ext. 1973). (18-5)

(Zone 12)
PICO & PACIFIC COAST HIGHWAY, Ocean Park. Will pick up in Ocean Park or Santa Monica. A. L. UNGER (5544-441. Ext. 2645). 18-12

(Zone 13)
MANCHESTER & LA BREA, Inglewood. CHARLES V. HARRISON (5586-496, Ext. 483), OR. 71241. 18-13

PRAIRIE & 113TH ST., Inglewood. LUDGER MERCIER (7210-240, Ext. 2206), OR. 83644. 18-13

HYDE PARK & INGLEWOOD AVE. (Can accommodate four people living in this area), Inglewood. CECIL SMITH (5524-236, Ext. 2209). (18-13)

(Zone 14)
RIVERSIDE DR. & HOLLYWOOD WAY, Burbank. HERBERT SIEBERT (5504-264, Ext. 1424). 18-14

12:15 a.m. — 7:00 a.m.

(Zone 7)
ANAHEIM & WILMINGTON or Figueroa. (Route: Main, Figueroa to El Segundo), Wilmington. GUS FRITSCHE (5501-821, Ext. 2200). (19-7)

(Zone 9)
HAWTHORNE & HIGHWAY 101, Torrance. I. W. RAYWORTH (3144-884, Ext. 1848), DAvenport 6-1330. (19-9)

Rides Wanted

7:00 a.m. — 3:45 p.m.

(Zone 1)
NORMANDIE & SANTA MONICA, Hollywood. BOB FAY (5503-367, Ext. 2681), NO. 3-4875. (2-1)

(Zone 2)
MANCHESTER & VERMONT, Los Angeles. BOBBY K. CURRIN (5503-748, Ext. 492). (2-2)

(Zone 3)
SLAUSON & COMPTON, Los Angeles 1. PAUL WOOTTON (5524-338) Ext. 2209). 2-3

(Zone 4)
LONG BEACH BLVD. & SANTA ANA ST., South Gate. CLIFFORD HARTSON (6269-71, Ext. 1611), JE. 2745. 2-4

ROSECRANS & WOODRUFF, Bellflower. EARL HEDGES (5520-95, Ext. 1233), TOrrey 66525. 2-4

IMPERIAL & MAIN, Los Angeles. A. LORRAINE ATWOOD (9320-101, Ext. 1756). (2-4)

(Zone 5)
STUDEBAKER & CARSON, Long Beach, Lakewood district. K. L. BAYSINGER (5503-179, Ext. 2681). 2-5

RIDES WANTED

7:00 a.m. — 3:45 p.m.

(Zone 5)
ARTESIA & 8TH STS., Santa Ana. Interested in entering or forming car pool. FRED B. TAYLOR (5506-131, Ext. 533 or 540), KI. 37309. 2-5

BELLFLOWER & SPRING ST., Long Beach. BERTHA BOUCHIE (9320-72, Ext. 1756), L.B. 405745. 2-5

CARSON & WOODRUFF, Lakewood Park. PAUL REPROGLE (7310-146, Ext. 2237), L.B. 39-8288. 2-5

STUDEBAKER & CARSON, Lakewood. MAXINE MAULORICO (5507-81, Ext. 526), Long Beach 390-925. (2-5)

CHERRY AVE. & ARTESIA ST., Long Beach. HAZEL BULLION (5621-24, Ext. 2649), Long Beach 2-3540. (2-5)

ROSECRANS & PIONEER, Norwalk. JAMES THOMAS (5503-370, Ext. 492). (2-5)

COMPTON BLVD. & GARFIELD, Paramount. IGNACIO JAIME (5503-746, Ext. 2681). ME. 3-4504. (2-5)

(Zone 6)
ATLANTIC & 7TH ST., Long Beach. DOROTHY L. WARREN (5524-346, Ext. 2209), Long Beach 25367. 2-6

BROADWAY & ALAMITOS, Long Beach. A. T. PUCKETT (7310-86, Ext. 1571), L.B. 358031. 2-6

(Zone 7)
WESTERN AVE. & 164TH or Gardena Blvd., Gardena. ROGER DAVIS (5504-67, Ext. 1424). (2-7)

VICTORIA & AVALON, Gardena. TEDDY E. DRAKE (5588-181, Ext. 1529). (2-7)

(Zone 8)
SANTA BARBARA & 2ND AVE., Los Angeles. R. J. HAECKEL (5353-104, Ext. 1277), AX. 6471. (2-8)

(Zone 9)
HIGHWAY 101 & DIAMOND, Redondo Beach. RAYMOND L. MERRILL (5524-335, Ext. 2209), FR. 45041. 2-9

SEPULVEDA & KATHRYN AVE., Torrance. J. HALL (5501-76, Ext. 2200). (2-9)

(Zone 10)
INGLEWOOD AVE. & 153RD ST., Lawndale. HAROLD ANKENMAN (6355-71, Ext. 1611), OSborne 64857. 2-10

HIGHWAY 101 & BERYL ST., Redondo Beach. LORENE R. ADAMS (5503-96, Ext. 2681). 2-10

PIER AVE. & HUNTINGTON LANE, Redondo Beach. C. V. CUNNINGHAM (5504-62, Ext. 1424). 2-10

STRAND & 9TH ST., Redondo Beach. Across from Edison Bldg. RUTH McAHEE (4250-36, Ext. 596). 2-10

MANHATTAN & PIER AVE., Hermosa Beach. JACK SHOR (5503-742, Ext. 2681). (2-10)

HIGHLAND & ROSECRANS, Manhattan Beach. ROGER KITSELMAN (6382-21, Ext. 723). (2-10)

(Zone 11)
BROADWAY & EUCALYPTUS, Hawthorne. MRS. L. B. DONALDSON (5507-309, Ext. 526), OS. 6-6360. 2-11

IMPERIAL HWY. AND MAIN STREET, El Segundo. W. J. TASKER, Jr. (5544-27, Ext. 2645), El Segundo 930-W. 2-11

(Zone 12)
LINCOLN & OCEAN PARK, Santa Monica. LEWIS DARRELL KISER (5503-395, Ext. 2681), EX. 93305. 2-12

(Zone 13)
HAWTHORNE BLVD. AND 102ND ST., Inglewood. LAURA THORNBURG (5352-84, Ext. 1731). 2-13

OVERLAND & FARRAGUT, Culver City. A. A. CASTILLON (5222-325, Ext. 1919), VE. 8-1307. 2-13

MANCHESTER & FLORENCE, Inglewood. MARY A. POUNDS (5337-11, Ext. 1842), OR. 7-0776. 2-13

OSBORNE & WOODMAN, Pacoima. EMMA SAM (5354-16, Ext. 467),. (2-13)

VAN OWEN or Sherman Way, Reseda. SAMMIE L. DONLEY (5534-71, Ext. 2244), Dickens 3-8612. (2-13)

(Zone 14)
SLAUSON & WEST BLVD., Los Angeles. KEN STUBENRAUCH (5353-70, Ext. 2464), AX. 15029. 2-14

SLAUSON AVE. & LA BREA, Los Angeles. WAYNE STEFFES (5544-123, Ext. 2244), AX. 3-7592. 2-14

7:30 a.m. — 4:15 p.m.

(Zone 1)
SLAUSON & BUDLONG, Los Angeles. JAN LIVINGSTON (3140-814, Ext. 466), PL. 1-1053. (3-1)

BEVERLY & VERMONT or Virgil, Los Angeles. NATE ALMOND (3250-183, Ext. 2777). DU. 9-3747. (3-1)

ADAMS & VERMONT or Western. (Interested in car pool), Los Angeles. THOMAS LUCK (3250-196, Ext. 2101), RE. 1-3829. (3-1)

(Zone 3)
MANCHESTER & GRAND, Los Angeles. Between Broadway & Figueroa, off Manchester. BETTY GRIFFIN (9370-13, Sxt. 437). 3-3

RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 3)
SLAUSON & ALAMEDA, Los Angeles. JAMES F. CARTER (5930-14, Ext. 2498). 3-3

TELEGRAPH & PAINTER. (Route: Telegraph or Florence, Downey, Imperial), Whittier. P. O. IVERSON (USAF, Ext. 1944), OX. 6-3804. (3-4)

IMPERIAL & MAIN, Los Angeles. A. LORRAINE ATWOOD (9320-101, Ext. 1756). (3-4)

(Zone 4)
IMPERIAL & NORMANDIE, Los Angeles. CHARLES ADAMOVIC (3270-91, Ext. 3279), PL. 6-3733. (3-4)

(Zone 5)
EAST & ADELE STREET, Anaheim. S. MANLY (5920, Ext. 2618), KEystone 5-8007. (3-5)

CENTRAL & ROSECRANS, Compton. T. C. VAUGHNER (4250-66, Ext. 596), NE. 8-6367. (3-5)

EL SEGUNDO & FIGUEROA, Los Angeles. ELINORE THOMAS (1210-18, Ext. 447), PL. 4-9194. (3-5)

(Zone 6)
NORMANDIE & 166TH STREET, Gardena. BEA WILLIAMS (7030-22, Ext. 1675 or 2124), MEnlo 9-1744. (3-6)

VERMONT & 170TH ST., Gardena. BETTY K. EMORY (9350-34, Ext. 2298), MEnlo 4-8924. (3-6)

(Zone 8)
COMPTON & CRENSHAW. (Ride home from work only), Alondra Park. BETTY GROSS (1441-84, Ext. 2393 or 1811), OS. 5-1626. (3-8)

(Zone 9)
REDONDO BEACH BLVD. & PRAIRIE, Torrance. Interested in car pool. WALT TEUBNER (3120-15, Ext. 1425). 3-9

HAWTHORNE BLVD. & 182ND. (Will alternate taking car), Torrance. GORDON CAMBRIDGE (3146-50, Ext. 1780), FR. 9-2127. (3-9)

(Zone 10)
HIGHLAND BLVD. & ROSECRANS, Manhattan Beach. NORMA JEAN GALLAGHER (1441-37, Ext. 2393). (3-10)

SEPULVEDA & MANHATTAN BEACH BLVD. (Interested in car pool), Manhattan Beach. MARY AGNES AADNESEN (4100-22, Ext. 2331), FRontier 4-8456. (3-10)

(Zone 11)
AVIATION BLVD. & 119TH STREET, Inglewood. Interested in car pool. MARJORIE McCORMICK (8100-47, Ext. 2717), OS. 6-5958. 3-11

ANZA & EL SEGUNDO, Hawthorne. HOMER RALLES (3530-142, Ext. 423), OS. 6-7507. (3-11)

(Zone 12)
BUNDY & MONTANA, Brentwood. JOAN CLARK (5150-24, Ext. 2325), AR. 3-9433. (3-12)

BUNDY & MONTANA, W. Los Angeles. SUE BURRIS (9330-35, Ext. 1471), ARizona 3-7680. (3-12)

(Zone 13)
LA TIJERA & CENTINELA or Freeman, Los Angeles. NANCY WALLACE (5050-11, Ext. 658). (3-13)

CHASE ST. & WOODMAN. (Interested in car pool), Panorama City. H. REED WAUGH (3424-88, Ext. 565), EMpire 2-3856. (3-13)

MANCHESTER & EUCALYPTUS, Inglewood. MARJORIE ANHALT (4220-103, Ext. 2738), OR. 2-7991. (3-13)

(Zone 14)
SANTA ROSALIA & SOMERSET, Los Angeles. RUT HA. GREEN (USAF, Ext. 1775), AX. 11340. 3-14

CRENSHAW & WASHINGON or Olympic, Los Angeles. VICKI STRAHAN (5910-833, Ext. 1565 or 1566). 3-14

LA BREA & 64TH ST. (Would like ride or will be in car pool), Los Angeles. ANNETTE SCHNEIDER (8320-190, Ext. 2011), AXminster 3-0482. (3-14)

ROSELAND & LA BREA, Los Angeles. HERBERT RIESS (3513-363, Ext. 2258), YOrk 8096. (3-14)

7:30 a.m. — 5:15 p.m.

(Zone 2)
VERNON & VERMONT, Los Angeles. J. R. ERICKSON (5917-892, Ext. 2541), AD. 3-3542. 4-2

(Zone 13)
SEPULVEDA & 77TH. (Interested in car pool), Los Angeles. JAMES W. RAMSEY (3230-553, Ext. 1873), OR. 2-1832. (4-13)

(Zone 14)
HOLLYWOOD & HIGHLAND, Hollywood. K. R. HOUSE (5910-858, Ext. 2541), HO. 7-4161. (4-14)

3:45 p.m. — 12:15 a.m.

(Zone 1)
ADAMS BLVD. & ARLINGTON AVE., Los Angeles. CHARLES M. LAUDER (5501-461, Ext. 2200), RE. 6720. 6-1

(Zone 5)
VERMONT & EL SEGUNDO, Gardena. FRED KAROW (5501-615, Ext. 2200), MEnlo 9-4240. (6-5)

ATLANTIC & ARTESIA, Long Beach. H. E. COX (5588-483, Ext. 1529), L.B. 203-822. (6-5)

RIDES WANTED

3:45 p.m. — 12:15 a.m.

(Zone 10)
INGLEWOOD & EL SEGUNDO BLVD., Hawthorne. L. E. BERKLEY (5501-431, Ext. 2200). (6-10)

(Zone 12)
LINCOLN & MANCHESTER, Los Angeles. JOHN H. DANDELIN (5501-242, Ext. 2200), OR. 1-9819. (6-12)

3:45 p.m. — 1:15 a.m.

(Zone 4)
COMPTON & 114TH OR 116TH, Watts. PERRY LEE FLOYD (5538-250, Ext. 525), LO. 63659. 7-4

4:45 p.m. — 1:15 a.m.

(Zone 1)
SANTA BARBARA & VAN NESS AVE., Los Angeles. HIDEO ASAI (5504-437, Ext. 1424), AX. 3-8586. 8-1

PICO & WESTERN, Los Angeles. HERMAN SHAPIRO (5504-611, Ext. 1424). 8-1

(Zone 2)
FAIR OAKS & FOOTHILL BLVD., Altadena. M. E. CLARKE (5534-294, Ext. 2244), SY. 7-5337. (8-2)

OLYMPIC & FIGUEROA or Alvarado, Los Angeles. MICHAEL J. KARPIN (5587-248, Ext. 1973). (8-2)

(Zone 3)
GARVEY BLVD. & ATLANTIC BLVD., Monterey Park. E. O. ATKINS (5587-475, Ext. 1973), AT. 4-3732. (8-3)

GLENDORA & MAPLEGROVE STS. (Want another driver to share car pool anywhere in W. Covina or Puente), Puente. GEORGE T. COSTA (5503-238, Ext. 2467), EDgewood 6-5204. (8-3)

(Zone 4)
NORWALK SQUARE, Norwalk. HUGH S. PEREZ (5503-869, Ext. 2681), TOrrey 4-5231. (8-4)

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Zone 5)
ALAMEDA & 133RD ST., Compton. WEYMAN B. BROOKS (5509-499, Ext. 2075). 8-5

(Zone 6)
NORMANDIE & 169TH, Gardena. HILDRED R. ROOMES (5507-492, Ext. 526). 8-6

(Zone 9)
HIGHWAY 101 & TORRANCE BLVD., Redondo Beach. JOE CRABTREE (5503-847, Ext. 2681), FR. 48505. 8-9

INGLEWOOD AVE. AND REDONDO BEACH BLVD., Redondo Beach. THELMA MARY FAISY (5507-262, Ext. 526). 8-9

(Zone 10)
BROADWAY & INGLEWOOD AVE., Hawthorne. EVELYN SCHOENBAUM (5352-235, Ext. 1508), OSborne 64011. 8-10

(Zone 12)
WILSHIRE BLVD. & 17TH ST., Santa Monica. URA P. HOWE (5504-255, Ext. 2124), EXbrook 59877. 8-12

CENTINELA & CULVER or Washington, Venice. MARY BURFORD (5534-227, Ext. 2244), EX. 81217. 8-12

PACIFIC & MAIN, Venice. EDITH JARAMILLO (5534-231. Ext. 2244). (8-12)

(Zone 13)
WILSHIRE & SEPULVEDA, Los Angeles. RON NESWALD (7510-226, Ext. 2488), AR. 8-9363. 8-13

12:15 a.m. — 7:00 a.m.

(Zone 14)
ADAMS & LA BREA, Los Angeles. FIELON BAILEY (5508-949, Ext. 2230), RE. 3-7734. (9-14)

Miscellaneous & Split Shifts

(Zone 7)
LEMOLI & 139TH. (Near Crenshaw & Rosecrans. Hours: 4:15 to 12:45), Hawthorne. KATHLEEN LAM (6360-221, Ext. 1681 or 1682), OS. 6-1356. (10-7)

BBSF CLASSIFIED

(Continued from Page 7)

RENTALS OFFERED

HOUSE, 3-bedroom, near airport in Palmdale, $90 per month. NORM WILSON. Reply in writing to Northrop News, Box 1512. E

HOUSE, unfurnished, Torrance area, 2 bedrooms and den, bath and one-half, large fenced yard, teenagers O.K., $75 per month. ETHEL ELLIS, DA. 6-4869 between 5:00 and 7:00 p.m. E

APARTMENT, unfurnished, front half of duplex, Gardena, 2 bedrooms, Bendix washer, $75 per month. H. E. FARRINGTON, PL. 58158. E

APARTMENT, new, unfurnished, one bedroom, garbage disposal, garage, venetian blinds, hardwood floors, no pets, $70 per month. H. M. SAILERS, OR. 5-6458. E

HOUSE, 2-bedroom, newly decorated, venetian blinds, separate 22x22 garage, close to Northrop, $8000, about $1000 down, or will lease $75 month—year at a time, possession about May 1. C. R. HOLLOWAY, MEnlo 4-2600. E

APARTMENTS, new deluxe furnished and unfurnished 1-and-2 bedroom, garage, disposal, laundry room, TV plug, adults only, no pets, Montebello, $65 and up. Call ANNA POTZ, PL. 2-0982. E

HOUSE, new 3-bedroom, gas wall heater, garbage disposal, garage, water paid, children O.K., Compton, $87.50 month. J. E. SEYMOUR, RIchmond 8-9786. E

ROOM for man, private bedroom, share rest of house with two others two miles from Plant One. Call AL YEAGLE, OS. 5-6007 after 5:00 p.m. E

APARTMENT, furnished, one-bedroom, lots of closet space, garbage disposal, garage, must be seen to be appreciated, no children or pets, one-half block off Prairie Ave. on 99th St., Inglewood, five minutes to Northrop, $100 month. G. STOCKWELL, ORchard 2-2555 after 5:00 p.m. E

RENTALS WANTED

APARTMENT, 1-bedroom, furnished, Inglewood area, up to $55 per month. JANICE LIVINGSTON, PL. 1-1053. F

APARTMENT or house with stove and refrigerator, unfurnished, near Northrop preferred, up to $65 month. GLORIA ROSS. Reply in writing to Northrop News, Box 1525. F

RENTALS WANTED

APARTMENT, 1-bedroom, walking distance to Northrop, $50 per month, furnished, possession by April 1, 1954. JOHN S. PAWLAK, AX. 3-2607. F

HOUSE, 3-bedroom, unfurnished, up to $80 monthly. MAX MARGOLES. Reply in writing to Northrop News, Box 1510. F

BACHELOR APARTMENT, partially furnished, Gardena or Torrance area desired, rent not to exceed $50 per month. JIM LANG, LO. 6-6568. F

GARAGE, Hermosa or Manhattan Beach area, for boat and trailer storage. R. W. HOUSTON. Reply in writing to Northrop News, Box 1524. F

CHILD CARE OFFERED

CHILD CARE, experienced, responsible woman wishes to provide 5-day care for child, congenial, healthy family atmosphere, F. L. ASHE, FRontier 9-2269. G

CHILD CARE, 2 years old or over, in my home, swing shift only, TV and lots of play equipment, experienced care, $10 week. E. L. MURPHY, PL. 5-0641. G

CHILD CARE—Will take all ages, but prefer babies; have room for only three. J. E. CLARK. Reply in writing to Northrop News, Box 1518. G

CHILD CARE, in my home from 7:00 a.m. till 2:30 a.m. day and swing shift, any age, MRS. T. S. RICHARDSON. Reply in writing to Northrop News, Box 1511. H

CHILD CARE WANTED

CHILD CARE, would like reliable girl or woman to care for 3 year old girl in my home days, call after 5:00 p.m., P. MARTIN, ME. 4-1869. H

WOMAN to care for child during second shift hours and to help with housekeeping. Share home plus small salary. J. M. CHANEY, call Ext. 641 after 4:45 p.m. H

PERSONALS

ROOMMATE WANTED, girl 20 would like to find girl 19-25 to share room and expenses, to locate somewhere between Inglewood and Culver City, call if interested. CLAIRE MATTHIES, LAmbert 5-1959. L

AT PERSONNEL

POLIO COVERAGE—Norcrafters who carry group hospitalization coverage are automatically insured (at no additional cost whatsoever to them) for $5000 to combat polio should this dreaded disease strike the family. If you want this protection, call station 2586.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening, 7:00 to 10:00.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BALLROOM DANCING
Second series of lessons beginning March 6; will meet every other Saturday thereafter at NRC Clubhouse. Register now at PA&S, Plant I.

BASKETBALL CLUB (day)
Larry Baird, acting commissioner
Interdepartmental League play Monday and Thursday, 7:45 to 10:00, Leuzinger.

BASKETBALL CLUB (night)
Available practice sessions at Rosecrans Playground, 149th and Vermont, Gardena—Monday and Tuesday mornings, 10:00 to 12:00.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily—Plant I, Plaster Shop tent, 11:00 a.m.; Plant II, second floor, center conference rm., 12:30 p.m.; Plant III, conference room 5, 12:15.

BOAT CLUB
Elmer Chiodo, commissioner
Next meeting, Monday, March 1, 7:30 p.m., NRC Clubhouse.

BOWLING CLUB (day)
Chuck Carson, commissioner
Annual Spring Tournament, Hawthorne Bowl, Sunday, April 25, and May 2.

BOWLING CLUB (night)
Tony Cardoza, commissioner

BRIDGE CLUB
Walt Darby, acting commissioner
Meet 2nd & 4th Tuesday each month. Next meeting March 9, NRC Clubhouse.

CAMERA CLUB (day)
George Fuller, acting commissioner
Meet every other Friday, NRC Clubhouse Annex. Next meeting March 5, 7:30 p.m.

CAMERA CLUB (night)
Adam Slusarz, commissioner
Meet every other Saturday evening, NRC Clubhouse. Next meeting Feb. 27, 7:30 p.m.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1. Evening meeting on Monday, March 8, at 7:30 p.m. at the NRC Clubhouse. All Norcrafters, families and friends invited.

GOLF CLUB (day)
Jim Milne, commissioner

GUN CLUB
Dick Booth, commissioner
Meet every other Tuesday, 7:30 p.m., NRC Clubhouse. Next meeting March 2.

MIXED CHORUS
Meet every Wednesday evening, NRC Clubhouse, Fountain Room, 7:30 p.m.

MODEL RAILROAD
Gene Boggess, commissioner
Meet Wednesdays, 7:30 p.m. Call PA&S for information.

PHILATELIC CLUB
George Borton, commissioner
Philaletic and Numismatic combined club meets 2nd and 4th Monday each month. Next meeting March 8, NRC Clubhouse, 7:30 p.m.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun., March 7, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, March 4.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot March 6. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKI CLUB
Ken Waters, acting commissioner
Meet every Wednesday evening, 7:30 p.m., at NRC Clubhouse.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be March 15, NRC Clubhouse Board Room.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse. Next meeting March 11. Combined Northrop, North American, Hughes Sport Car Club "Standing Start One-Quarter Mile" on Sunday, Feb. 28, 8:30 a.m., Saugus Drag Strip.

SQUARE DANCING
Dave Dyer, commissioner
Meet at Swimms Barn, 15016 Daphne St., Gardena, from 7:00 to 10:00 p.m. Meet 1st, 2nd, 4th & 5th Sundays.

SURF FISHING
Ted Griswold, acting commissioner
Meet NRC Clubhouse, 7:30 p.m. Next meeting, Tuesday, March 9.

TOASTMASTERS 212 (day)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS 1398 (night)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon, Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Orval Coley, commissioner
Meet Wednesday, Feb. 24, 7:30 p.m.; NRC Clubhouse.

NRC Maple Teams in State Meet

Teams have been selected to represent Northrop in the California State Bowling tourney, to be held at Boulevard Bowl, 1945 American Avenue, Long Beach on May 23, according to Chuck Carson, bowling commissioner (days). All entries are sponsored by the NRC.

Day shift bowlers will be represented by:

Team #1 — Orville Brenner. Advance Production; Phil Loth. Material Control; Jim Stewart. Engineering; Phil Reeder, Test Lab.; Woody Howsare, Tool Liaison.

Team #2—Wes Carr, Accounts Payable; Gordon Grimm, Tooling; Nick DiRisio, Advanced Production; Al Foedisch, Tool Engineering; Ted Belitz, Timekeeping.

Team #3—Bill Klabunde, Engineering; Dick Carmichael, Engineering; Tom Pickard, Final Assembly; Aime Gauvin, Machine Shop; Elmer Simcox, Materiel.

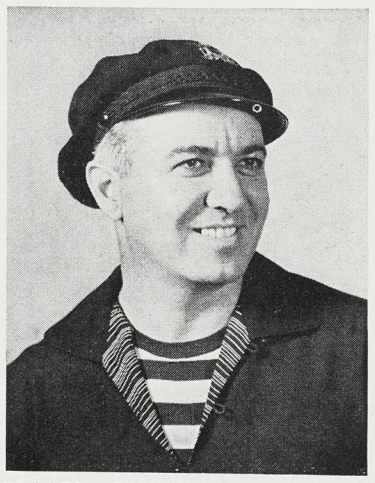
Night shift team roster is not complete to date, but plans are being made to enter at least one aggregation of the after-dark boys.

BOWLING LADIES WARE — — BENDER EAST TO KEGGLE

Lucelle Ware, F-89 Final Assembly, was the winner of the Powder Puff tourney held last January 30 at Culver Bowl. Tournament was sponsored by the Woman's International Bowling Congress as a benefit to send local delegates to the WIBC Championships to be held April 8 through 27 in Syracuse, New York.

Lucelle bowled a 546 scratch series with a 662 handicap score to win the first place trophy.

Norcrafter delegates to the Syracuse tourney are Lucelle and Rocky Bender, Tooling Fabrication.



ELMER CHIODO — Newly elected NRC Boat Club commissioner is 13-year Norcrafter and member of Production Planning department. An enthusiastic seaman, Elmer hopes to expand club activities to include all boat owners, large or small (see Joe Cribbs' column, this page). Installation of Boat Club officers will be held on May 8.

Sports Car Norcrafters In Hare and Hounds Hassle

"Which way did he go——?" was the question for NRC Sports Car folk last January 30, when Northrop and Northrop-Anaheim sports car enthusiasts joined forces for an exciting pictorial hare-and-hounds chase.

Believed by SC club members to be the first of its kind, the idea was originated by Jack Ward, Engineering. Jack charted a course for the race and snapped pictures along the route of various landmarks, crossings, road signs, etc. The pictures were numbered in sequence and each entrant in the race was given a small picture album to use as a "map".

The course was measured at 95.7 miles and the winner was determined by the speedometer reading nearest that figure.

The chase led from the Northrop-Anaheim parking lot to Irvine Lake, Modjeska, across the ridge to a point near Laguna Beach, back to Anaheim, across to Signal Hill, to Palos Verdes, ending at a favorite sports car enthusiasts' hang-out, the Camer Inn near Walteria.

Winner of the race was Ward Willcutt, Production Engineering, with 96.0 miles registered. Bob Lanham, Anaheim, took second place and Noble Bishop, third.

Twenty-six cars were entered of all types and sizes. Ward Willcutt drove a Volkswagen, Bob Lanham a Morris Minor, and Noble Bishop an M-G TC. Other drivers had MG's, a Simca, Jaguar, Austin, Singer, and some drove their "family" cars in order to carry more co-pilots to help navigate.

Credits go to Doug Hugill, Tool Design; Hal Hunsberger, club publicity manager; Jack Kirkpatrick, Lynwood; and Bruce Vernier, club commissioner, who helped Jack develop and print the approximately 1800 pictures that made up the 64-print sets given to each entrant.

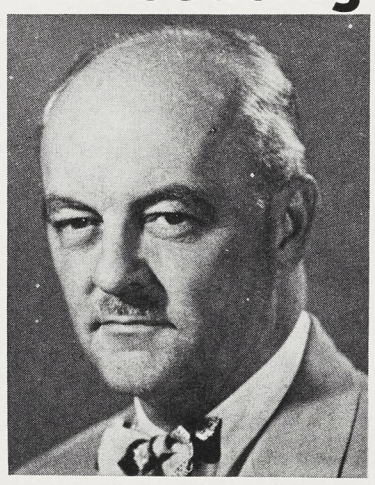
NRC GARDENERS TO SEE MOVIE AT CLUBHOUSE

"How to Grow Beautiful Begonias and Fuchsias" is the title of a movie to be shown Garden Club members at their next monthly meeting to be held March 8 at 7:30 p.m. in the NRC clubhouse.

The movie, sponsored by the California Spray Chemical Company—makers of Ortho products, will be followed by a lecture by an Ortho representative on various sprays for garden plants. After the talk a round-table discussion will be held for the benefit of garden club members.

Door prizes will be given and refreshments served, according to Bert Binge, Garden Club commissioner. All Norcrafters are invited.

Introducing



FIRST PRESIDENT—of newly-formed Ontario Toastmasters Club is Herb Putnam. Other officers include: Glen Earl, vice-president; Warren Symington, secretary-treasurer; Barry Smith, sergeant-at-arms; Chester E. McMasters, deputy governor; Wayne Wiggins, educational chairman. This makes sixth TM club for Northrop recreation.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Dorothy Hodgson, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BASKETBALL
Betty Talley, acting commissioner
League now in progress at Ardmore Playground Tuesday evening, 7:30 p.m.

BOWLING
Florence Rice, commissioner
Ladies Handicap League in progress at Torrance Bowl, Tues., 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Next meeting at Chalan's Restaurant, 1455 W. Manchester, Wednesday, Feb. 24, 7 p.m.

FLOWER CLUB
Mary Nelson, acting commissioner
Meets second Tuesday of each month, NRC Clubhouse, 7:30 p.m.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse. New project: Drapery making.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Wednesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP (Mariners)
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Peggy Barber, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 to 6:30 p.m. Baby sitting provided if necessary.

RAYMOND CANNON, author, "How to Fish the Pacific Coast", will be guest speaker at Surf Fishing club meet March 9, 7:30 p.m. in NRC Clubhouse. Noted lecturer and writer, Cannon will talk on fabulous fishing spots he has found. Ted Griswold, club comish, will show movies taken on his trip to the South Pole with Admiral Byrd. . . .

Small Boat Owners Plan Sea Program

By Joe Cribbs
President
Northrop Recreation Club

Small boat owners, attention! New NRC Boat Club commissioner Elmer Chiodo announces a program to care for the needs of the small boat owners. What is a small boat? — anything from 21′ on down to a one-man rubber life raft. Activities for the small boat owners include projected weekend fishing parties to Catalina, plus Saturday night fish fries. Outings of this kind are strictly Number One. I went on one myself last summer—Emerald Cove—where everybody tied into steak and fixings. (I reiterate: it was a swell party.) NRC small boat owners will be aided and assisted by the large boat owners. For instance, in cruises such as this type, a large boat equipped with radio communications will tag along, just in case—. There has long been need for a comprehensive small boat program at Northrop. Elmer is filling the bill. You can see him the first Monday of every month at the NRC Clubhouse.

★ ★ ★

Comes word that Northrop fishermen in the Tooling division up and had themselves a rock cod fishing trip on the boat "GW", January 16. Everyone caught fish—natch; great big ones—natch; in limits—natch. To be specific on this fishing trip in the Pacific, Larry Hendel, 14, son of John R., tool engineer, won himself an ocean fishing reel from the NRC for an eight-pound RC.

★ ★ ★

Bowling Backfire—Also comes word that the "Stee-Rike-Ers", bowling team made up of Northrop stalwarts, Eddie Howsare, Art Luedeke, Quint Langland, Ralph Vincent, Phil Reeder, made serious mistake of taking on a group called the "Northrop Challengers", at the Lakewood Bowl, Sunday, January 17. Wha' happened—? The score, when all the shouting and tumult died down after a series of three games, was 2523 to 2391, favor of "Northrop Challengers". What's so unusual about this? The "Northrop Challengers" is an all-weaker-sex team composed of Betty Rice, Jean Ward, Marge Howsare, Florence Rice, and Irene Langland. Who said weaker sex?

ARAGON NIGHT

It is not too late to get special discount tickets for Northrop Night at the Aragon Ballroom — Saturday, Feb-27.

Tickets may be obtained from PA&S offices at Plants I and III, or from PA&S representatives.

THE Northrop Scene BY DAY AND NIGHT

Big League Concentration

WORLD CHAMPION BRIDGE—in Paris! Norcrafter Doug Steen, Laboratory Analysis, shown center-rear of table, during exhibition bridge match in City on the Seine. Prior to this picture Doug and five team-mates had successfully defended championship title against European team in Monte Carlo (see Northrop News issue of November 4, 1953). Team followed bout with exhibition matches in Paris, London, Rome, Amsterdam, Rotterdam. Since return Doug has signed to write syndicated column, "Artistry of Bridge".

Night Train---!

NEW NORCRAFTER is famed pro football defensive ace Dick "Night Train" Lane, left, who is a night shift dispatcher in Assembly Stores' central shipping section. Night Train is shown as he was recounting some of his National League pigskin adventures to Ray Hultgren, Shipping. Lane was recently traded by Los Angeles Rams to the Chicago Cardinals, who are coached by Jumbo Joe Stydahar, former Ram mentor. Lane specialized in intercepting foe's passes.

Champ TMs

TALENTED WINNER of Toastmistress' speech contest was Louise McCulloch, Timekeeping, left, shown with runner-up Barbara Pritzkat, Publications. Contest determined representative to attend area competition on March 11—finalist will go to Toastmistress' international speech trials.

ANTI-EXPLOSIVE — Northrop News, on March 11, 1953, reported invention by M. G. "Gene" Cornford, left, of an explosion suppression device for inerting empty fuel cells. Based on "melting" of dry ice and consequent release of carbon dioxide in tanks to inert oxygen, the invention eliminates possibility of flash explosions. Standard Safety Equipment Company of Chicago, it has now been announced, will manufacture and market the device under exclusive licensing by Northrop. Pictured assisting Cornford—E. E. Chickelero, test mechanic, Jack Snedaker, Personnel, formerly of Safety.

Pasadena

PASADENA CIVIL DEFENSE—Pasadena Optical Norcrafters, working in Area Nine of Civil Defense organization, gathered recently when Jerry Baker, Northrop C-D coordinator, visited facility for a training class. Posing for photog on occasion, were, from left, kneeling: Otto Hartman, deputy zone warden; Hans Winkler, Rest Room warden; Nathan Wilcox, zone warden; Paul Halderman, deputy chief warden; Dr. Philip Taylor, chief warden and head of Northrop's Pasadena facility; Arthur Langrud; and Evelyn McClanahan, Rest Room warden. From left to right, standing—Edwin Shurtleff, Jerome Cornelius, Charles Schroder, Frederick Cindel, Dorothy Diamond, Elvis Sprigg, Patricia Larner, Thomas Griffith, Frederick Vogler, Gordon Brown, James Brandriff, Darrell Wilcox, Lowell Baskins, Marcel Therssen, Robert Salmon, Harold Hall, Herbert Sperling, Lowell Russell and Dollie MacLoane. All are Department 3340 Norcrafters except Brown, who is in Analytical Engineering (3230),

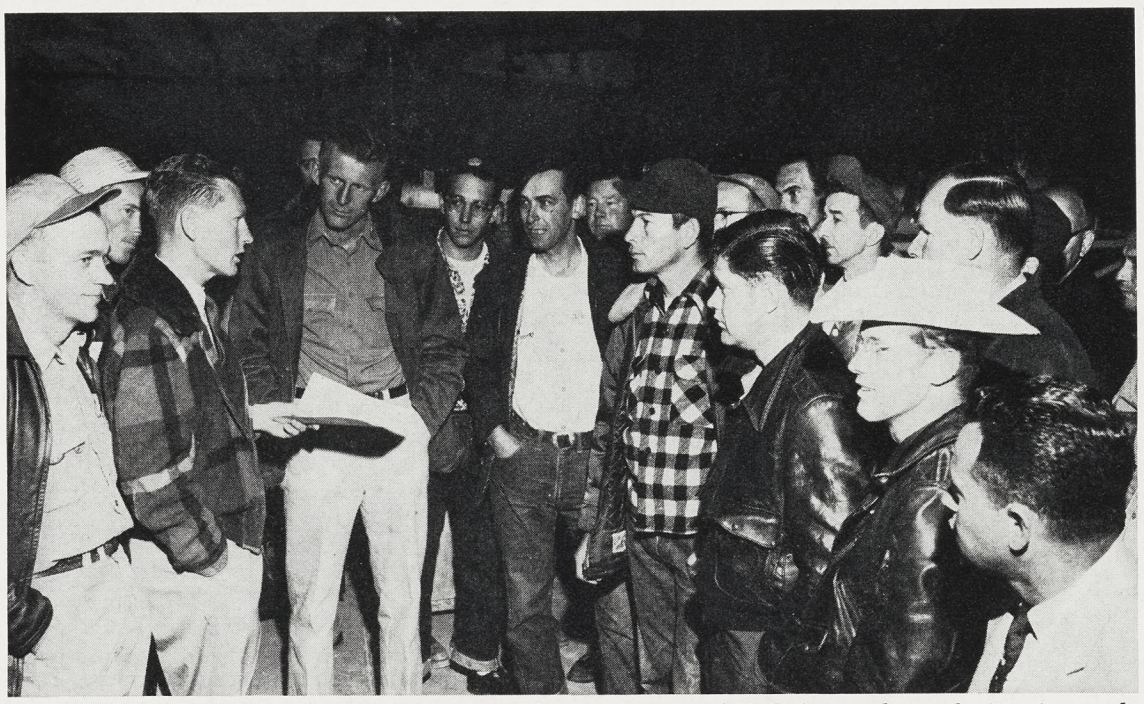
Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, March 10, 1954

Parking Change

(See Page 2)

NEWEST FACILITY OPENS



PALMDALE'S FIRST production crews, 59 strong, are briefed on their duties in early morning of their first day at the new base by E. N. Clipperton, assistant foreman, Flight Service. Following the briefing, Ernie Rogers, assistant superintendent, gave a short talk on future Company plans. Newcomers then toured the facility. Airplane in background was still shrouded with shipping paper when photo was taken. By noon crews had empennage attached and wings were set in cradles ready for attachment to F-89 fuselage.

FIRST clocking in at Palmdale facility, March 1, was flight line mechanic F. A. Luqueer, jr., center. Greeting him are William Renison, jr., chief, Operational Services, and E. N. Clipperton, assistant foreman; Inspector R. H. Smutz; mechanic C. C. Reitzel; and Pauline Humphrey, blueprint clerk at facility.

FIRST PRODUCTION NORCRAFTERS CLOCK IN AT PALMDALE

Monday, March 1, was a red letter day for Northrop's new Antelope Valley facility, when the first contingent of production Norcrafters arrived to augment the skeleton force which has manned the Palmdale Airport delivery point until now.

Numbering 59 and representing many final assembly skills, the group — a majority of whom were transferred from Ontario — was greeted by company officials including Kenneth Bowen, vice president of Manufacturing; Tom McCracken, Palmdale base administrator; the local press and two representatives of Antelope Valley Chamber of Commerce.

First man to clock in was flight line mechanic F. A. Luqueer, jr., who transferred from Ontario.

Standing in the shadow of the first Scorpion airplane to be shipped to the base, E. N. Clipperton, assistant foreman, Flight Service, briefed the recently arrived crews on their duties. A brief talk on future plans by Ernie Rogers, assistant

(Continued on Page 2)

New System In Assembly By Planning

Assembly line operations on the Scorpion will benefit from new planning paperwork due to be released soon by Production Engineering, the department which has prepared it in conjunction with Industrial and Plant Engineering and Quality Control representatives.

Norcrafters on the assembly line, flight depart-

(Continued on Page 4)

Palmdale Time Table

May 7, 1953 . . . ground broken for Northrop Palmdale buildings following approval of bids by Industrial and Plant Engineering; foundations readied for concrete pouring.

Community responds as large and small housing projects get under way; ground being laid out for small ranch tracts.

June 3, 1953 . . . pouring of concrete begins; erection of steel follows. Concrete walls poured.

Late in month new County zoning plan announced, opening former agricultural lands to housing, small farm tracts . . . Manufacturing zones created for smaller manufacturers . . .

August 15, 1953 . . . steel erection completed.

More large housing tracts get under way . . . school officials plan new grammar school in Palmdale.

October 10, 1953 . . . first man officially transferred to Palmdale:—William Renison, jr., chief, Operational Services.

December 2, 1953 . . . building being readied for occupancy. Transfer application cards in Northrop News, and Personnel department sets up processing under Dick Carroll.

Building permits in Antelope Valley soar to $4,583-492.

January 11, 1954 . . . first skeleton crew assigned to Palmdale.

January 27, 1954 . . . first community relations story on project published in Northrop News.

February 25, 1954 . . . first airplane trucked to Palmdale by Transportation.

March 1, 1954 . . . building 98 per cent complete. F. A. Luqueer, jr., Ontario transferee, first man to clock in with contingent of 59 production Norcrafters.

Community continues to keep pace — adequate housing for all.

RECEPTION COMMITTEE stands before first production airplane at Palmdale, already taking shape by 11 a.m. on first day of production crews' arrival. Officials pictured above are, from left: William Renison, jr., chief, Operational Services; Tom McCracken, base administrator; Al Study, manager, Palmdale Chamber of Commerce; Kenneth P. Bowen, vice president, Manufacturing; B. P. Glenn, manager, Lancaster Chamber of Commerce; Ralph Hopkins, Northrop News; Dick Carroll, manager, base Industrial Relations.

Insurrection

By DR. JOHN R. LECHNER

(Third of a series of four articles)

FBI Director J. Edgar Hoover said recently in speaking of the threat of sabotage in the event of a crisis with the Soviet Union:

"While the Communist Party has not yet launched a program of sabotage, it is a fact that every disciplined member of the party has been called upon to prepare himself to meet any emergency and to be prepared for organized violence. Each thoroughly disciplined member of the party can be regarded as a potential saboteur—at the party's direction or through his own volition."

THE PLAN

The plan for insurrection has been meticulously worked out on a military basis. A former organizer for the Communist Party gave the writer a copy of this plan. Briefly it is this:

On orders one night—orders coming from the Kremlin and channeled through Cuba to the upper echelons of the party in this country—and at a time propitious to the Soviet leaders, the many guerrilla units of the communist conspiracy will start operations in every major part of the land, at the same hour and on the same night.

Fires will be started in scores of scattered areas throughout these cities to dissipate the police and fire departments. At the same time, trained saboteurs will try to capture ammunition stores for guns and ammunition. Bridges will be blown up. Water and power sources will be attacked.

All communication centers will be targets, including telephone, radio, television. Some highways will be blown up to stop the flow of traffic. With no light, fuel, water or transportation, cities will be thrown into panic. Goon squads will be on the prowl in the streets to shoot those who resist, while others will be held as hostages.

This seems like a fantastic scheme, and impossible with our police departments and defense organizations. However, it is exactly the pattern used so effectively in Czechoslovakia and elsewhere in the final stages of insurrection.

FRESNO PANIC

It will be remembered that a short time ago ONE arsonist almost caused a panic in the city of Fresno when he started a dozen fires during the busy hours of the day.

It is better to examine these techniques of the Kremlin seriously.

There are two principal methods to combat the communist conspiracy in the United States. One is through a frontal attack with the use of legal procedures, and the other is a nationwide campaign of education among both youths and adults, presenting an objective analysis of the American way of life, and recounting the virtues of our constitutional republic.

When the astounding facts came to light, bit by bit, that Soviet spy rings had access to our most secret defense data, including the A-bomb, and that Communists had influenced the State Department for years (with the result that we had unwittingly helped to build the armed might of the Soviet Union in the Far East), Congress at length decided to take steps to prevent the complete capitulation of our defense efforts to the Reds.

SMITH ACT

The Smith Act, passed in 1940, made it a crime against the nation to teach or advocate the overthrow of the government by force and violence. It was not seriously invoked until 1949, when 12 members of the National Board of the Communist Party, including William Z. Foster, president of the Communist Party of America, who pleaded illness, were hauled into Judge Harold R. Medina's court in New York. The famous trial lasted many months under the most patient handling of this eminent jurist.

Julius and Ethel Rosenberg were convicted and sentenced to death under Title 18, Section 794 of the espionage statute. Alger Hiss was convicted and sentenced to prison for lying about turning over confidential State Department secrets to Whittaker Chambers.

The Internal Security Act of 1950 requires the registration of communist-action and communist-front organizations with the Attorney-General. Hearings involving scores of such organizations have already been held before the Subversive Activities Control Board, created by this Act.

AMERICAN WAY

In commenting upon the long delay of months and years in the final disposition of cases dealing with Red traitors and organizations, Warren Olney III, Assistant Attorney-General, in a recent communication to this writer, said:

"I bring these facts to your attention in connection with your comment concerning long trials and delays, since you appreciate, I am sure, that hearings such as those provided by the Act, and trials, regardless of their length, are an inherent part of our American system of jurisprudence and are in keeping with the Constitutional provisions respecting the right to trial and due process of law."

The Senate Internal Security Committee is one of the three principal investigating agencies of the federal government dealing with communism, and has succeeded in exposing a pernicious spy ring in the United Nations.

The House Un-American Activities Committee has already exposed communist infiltration and influence in some major industries, notably in the entertainment field.

The Senate's Permanent Committee on Investigations, under Senator Joseph McCarthy, is the third. Its expose of the Ft. Monmouth spy ring, involving some of Julius Rosenberg's former associates, reveals the shocking betrayal of our vital radar defense plans designed to save the lives of millions of Americans in the event of air attack.

(Next Issue—"Common Sense")

FIRST BLUEPRINT READING class to meet in new series offered by Industrial Training Administration—. Latter department is represented by Norcrafters standing in rear: Tom Darden, administrator; Instructors Wayne Spearman, Chuck Beauchat (who suggested program), John Tye, Hank Solak, George Huntington; and Lou Larrentree, who supervises pre-industrial section. In group, all night shift Norcrafters, are: J. M. Bradley, F. E. Calvert, Frank Dembowski, jr., LeRoy Dick, W. G. Dunnell, R. J. Fiorelli, J. H. Hutchins, G. A. Landeck, Margaret Lennon, F. G. Nicolay, B. J. Phipps, E. J. Sandhoefner, E. L. Winkler, J. L. Allen, B. C. Barton, L. P. Casaccia, S. P. Cressey, jr., John Lipscomb, sr., Del Nicholson, N. L. Brown, W. B. Monson, J. F. Jones, E. E. Parks, Royce Robinson, D. L. Shoemaker, Adam Slusarz, A. W. Stahl, W. H. Twedt. They represent departments throughout the plants. Classes were over-subscribed (see story below).

PARKING CHANGES ANNOUNCED

LOT "A" TO OPEN AT 7:10 A.M.

Three recent developments in the parking situation have been brought to the attention of Norcrafters in a bulletin released today.

In the first, it has been announced that the parking lot at the south-west corner of Prairie and Broadway — Lot "A" — will open daily at 7:10 a.m., beginning next Monday, March 15.

The new opening time has been selected, it was learned by the News, to provide more equitable opportunities for Norcrafters to park autos there. The lot contains space for more than 160 cars; parking is unrestricted except for the opening time limitation.

A second development was the announcement that a pedestrian gate has been opened for use of Norcrafters parking in Lot "D", former Institute parking facility. The new 30-foot gate — located just west of the former Institute administration building — enables personnel parking in the lot to walk through Lot "C" to Plant One in ten minutes, without walking along Broadway.

Lot "D" still has provision for several hundred cars; the area has been paved and newly-marked. It is located about half-way between Plants One and Three, and provides good off-street parking for approximately 1000 cars for personnel in both plants.

Additional parking has been made available in Lot "C" by paving of areas formerly occupied by the old "boneyard" and part of the salvage area. Some of the newly-available parking area was used during the modification program.

New Base

(Continued from Page 1)

superintendent of Manufacturing Operations, followed.

After the talks the entire group was escorted on a tour of the facility. They then started work on the airplane which had been shipped to Palmdale on February 25, and which was still shrouded in protective wrapping paper.

Chamber of Commerce visitors, who also toured the plant, were amazed at the speed with which the crack crews attached the empennage section to the fuselage. The C. of C. reps were Al Study, manager, Palmdale Chamber of Commerce, and B. P. Glenn, manager, Lancaster Chamber of Commerce.

Both officials stated that they were impressed by the "esprit de corps" shown by the newcomers, and by the vast expanse of the modern new buildings.

B. P. Glenn stated: "These young people are pioneers of a new type, but their spirit seems to be the same as the people who originally settled in the Valley."

Study's comment: "These great new buildings are certainly a testimonial to the permanency of the airframe industry in the valley, and the people of Antelope Valley welcome their coming."

Norcrafters, in turn, voiced their appreciation of the fact that housing facilities had been found readily available.

FILE FULL

Response to the appeal for transfer applications of Norcrafters wishing to man the Palmdale facility has oversubscribed the requirements, Personnel Office Norcrafters said last week.

Although future applications will receive careful consideration, those already filed will amply fill the personnel needs at the Antelope Valley base for some time to come.

Day--Nights Sessions in Blueprints

Class quotas were vastly oversubscribed recently when Industrial Training offered off-shift blueprint reading courses to Norcrafters, it has been learned.

About 160 Norcrafters are attending the first classes now, with an equal number already signed up for the second cycle. The enthusiastic response made it necessary to double the schedule originally planned, so that there are now eight classes.

Four Industrial Training instructors are in charge of the training. Each class extends over a period of 10 weeks, with students attending classes for three hours on each of two days per week, or a total of 60 hours.

Henry Solak and George Huntington are teaching night shift Norcrafters; the day shift students are under the instruction of John Q. Tye and Wayne Spearman.

Volunteers for the classes represent all segments of Northrop, Industrial Training Norcrafters said, shop and office alike. A particularly large contingent signed up from the Paint Shop (5508).

Northrop News

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JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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Arctic Circle Expedition

FRIGID POLAR weather was encountered recently by Lee Smith, Customer Service manager; John Myers, vice-president; and George Buchner, Spare Parts Administration manager, on their survey tour of North East Air Command. Guests of Lieutenant General Charles Myers, commander, the group toured all bases of NEAC far north of Arctic Circle to Thule, Greenland, where weather was minus 40 degrees! Flight to polar ice cap was climax of trip . . . made Northrop representatives members of exclusive order limited to those who have had that experience. Eskimo togs, deep 24-hour Arctic night in background of photograph are ample testimonial to the wintry conditions surrounding the Thule base.

Down . . . . . Range

Air Force Secretary Harold E. Talbott says Americans will get 25 per cent more for their money as result of "new look" in long-range program of aircraft procurement . . . adds that nation will have almost 23,000 active airplanes in Air Force by June 1955 . . .

F-89D Scorpions are now being supplied to 18th Fighter Interceptor Squadron at Minneapolis-St. Paul Municipal Airport, Minneapolis, and to 438th FIS at Kinross AFB, Sault Ste. Marie, Michigan . . . where the squadrons protect the approaches of major industrial centers in north-central section . . .

Vera Rideout, Norcrafter (see Northrop News December 16, 1953 issue) who set sail around the world alone in 25-foot ketch, was forced to abandon her plan 5 days out of Los Angeles due to bad weather and injuries.

Larry Goeckner, ex-Machine Shop Norcrafter, recently received welcome surprise gift at his "graduation" from Navy boot camp, San Diego . . . dad T. J. Goeckner, Plant Protection, conveyed to Larry Suggestion Award won for idea Larry suggested shortly before enlistment.

Anaheim at midnight was scene seen by Navy Captain Robert L. Adams, assistant chief of Bureau of Ordnance for Material and Material Division director, when, despite tight schedule on March 2, he chose personally to tour facility . . .

Jim Bugbee, Northrop test pilot known to thousands, returns from Florida Special Weapons missile program . . . to join Jack Farley's Production Flight crew in Ontario next Monday.

Management Club Elects Jack Akin '54 President

Jack Akin, supervisor of Time Standards and Method Analysis, is the new 1954-55 president of the Management Club, the MC Board of Control announced last week.

Akin, who was elected over a slate of 13 presidential candidates, will receive the gavel of office from outgoing President Charles Bradford at the April 2 Management Club meeting, to be held at the Old Dixie Barbecue, 43rd and Western.

Also to be installed at the meeting will be other newly-elected officers of the organization. They include the following:

Cy Perkins, Materiel — Vice-president

Lloyd Johnson, Fab Control — Night Vice-president

Jim Dickey, Production Planning — Secretary

Ray Gardner, Project Engineering — Treasurer

Robbie Robinson, Quality Control — Sergeant-at-arms

Ontario and Anaheim Management Clubs have already elected Lou Casale and Ken Pembroke, respectively, to serve as vice-presidents heading MC at those facilities. Florida's election results have not yet been announced.

A record number of 41 candidates sought office in the Management Club this year as the result of nominations made at the group's January 30 meeting.

NRC-SPONSORED PLAYERS GROUP FIRST MEETING

The Northrop Players — new NRC-sponsored activity — have scheduled their first meeting for Wednesday, March 17, at 7:30 p.m. in the NRC Clubhouse Annex.

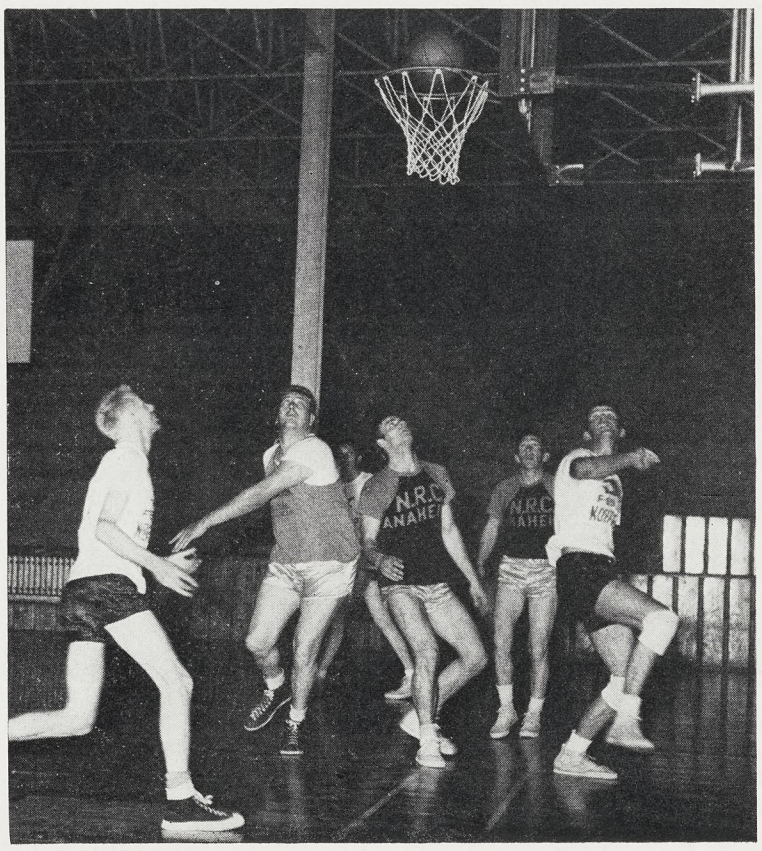
Casting will begin at this time for the first project by the group, which will be a three-act comedy farce titled "Three Live Ghosts".

All Norcrafters and their families interested in any phase of stage-craft (acting, stage manager, make-up, set designing, stage hands, or others) are invited to attend.

It is requested by NRC that all interested Norcrafters submit their names, departments and clock numbers to the PA&S office, Plant I, Ext. 2784, prior to the March 17 meeting.

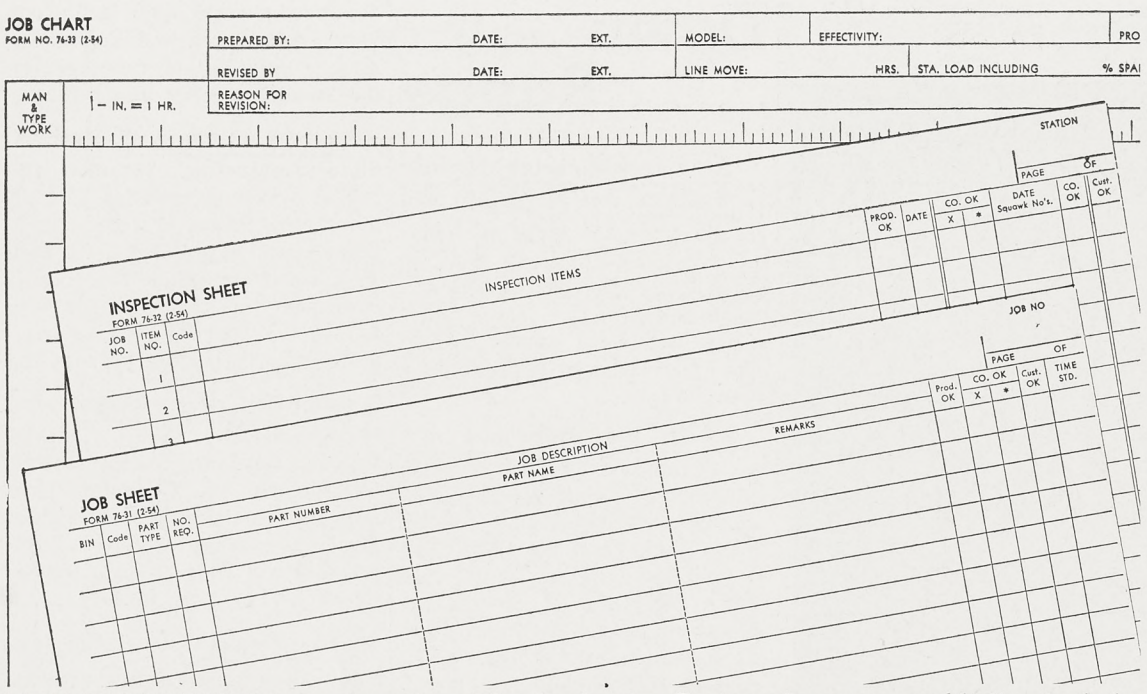
Proud Hoopsters Ontario and Anaheim

TALL VICTORS—. Here is lineup of Ontario flight facility hoopsters to whom victory is a familiar taste: From left, front: Frank Adams, guard; Robert Kefauver, center; Rex McBratney, manager and club comish; Charles Copeland, forward; James Miller, guard. Behind: Ronald Eggertsen, center; Arthur Morris, forward; Oliver Collins, center; Charles Gibbons, guard; Gerald Hurt, forward. Carlos Hernandez, forward, is not shown. Ontario team has been hot.



IT'S IN—. When Ontario Scorpions above met Anaheim Range-finders (left), in Chaffey gym on February 18, here is way flight facility kings copped top score, 55 to 35. Pix shows Art Morris, right, just after loosing the ball for an on-target drop. Ontario man, left, is Eggertsen, with farthest white-shirt thought to be Copeland. Anaheim battlers in gray: Bill Burgart, Scottie Scott and Bill Criss.

ANAHEIM LINEUP—. These boys put up good fight through to near-closing time, then were forced to bow to Ontario's height. From left, front—Austin Campbell, guard; Bill Criss, forward; Eddie Ochoa, forward; Bill Palmer, forward. Back—Jim Clinton, guard; Bill Burgart, guard; Jim Hein, guard; Scotty Scott, center; and Swede Dalen, forward. Chris Christian, not shown, is team manager and Club comish.



NEW PAPERWORK being introduced by Production Engineering on assembly line includes samples shown. Job Sheet, Job Chart will remain on station; only Inspection Sheet will travel along line with airplane, decreasing bulky file that becomes Scorpion record. Job Sheet replaces former "JS&I" and "APL" on final assembly, contains all information included on old forms; plus inspection data, which is transferred to Inspection Sheet.

Planning Paperwork

(Continued from Page 1)

ments, and in Ontario and Palmdale may be seeing the new forms soon—the paperwork will take effect on March 22 on all out-of-station changes. Effectivity is not planned for in-station airplanes until the first of a block scheduled to enter the line early in March.

Thus, Ontario and Palmdale personnel, who would not ordinarily encounter the new system until several weeks after the first airplane came out of flight departments at Hawthorne, may become familiar with it simultaneously with Hawthorne Norcrafters.

In essence, the new paper replaces two well-known articles with one streamlined—yet more complete—paper.

Known as the "Job Sheet", the new paper includes all details of the presently-used "Job Summary and Inspection Sheet" (commonly called the "JS&I") and APL's, or "Assembly Parts Lists". (The latter are eliminated only on the assembly line and in flight departments and will remain unchanged in others.)

Advantages are several, it is explained by Production Engineering.

First, the new system reduces the amount of "traveling" paper—paperwork which accompanies each airplane and becomes part of the airplane record. The volume of traveling paper may be cut as much as 60 per cent—all that goes with the airplane is the Inspection Sheet, which contains no job or parts information.

Second, there is more positive control of critical inspection points with a more detailed, yet easier-to-fill, "buy-off" form for inspectors.

Third, the new paper makes for a more flexible system of transferring work between cost centers, or sections, on the line.

And fourth—but by no means least—provision is made for a more balanced work loading for line positions by breakdown of necessary assembly operations into the smallest and simplest units of work, with detailed explanation of each. Each unit, or job, is numbered.

On the new Job Sheet assembly line Norcrafters will note complete listing of parts required, followed by detailed instruction for the job to be performed on a particular station. Inspection requirements follow, with code marking to be followed when accumulating "buy-offs".

Space is provided on the Job Sheet for Manufacturing Control and Time Standards data; job description; part number and name; and remarks.

Inspection information includes production OK; company inspector OK's; and customer inspection buy-offs. There is space provided, too, for special notes and for indicating critical items.

The inspection information will be transferred to an Inspection Sheet, which follows the airplane and becomes the only "traveling" paper. The job sheets remain on the station, one sheet for each job.

Tied in with the new paper is an up-to-date Job Chart, which will be prepared in bargraph form for each station on the assembly line.

The chart will show number of Norcrafters needed for each particular job done on that station. It will show how long that job takes and the sequence in which jobs will be done. And it will show the total load for that line position in a form that is readable by every Norcrafter on the station.

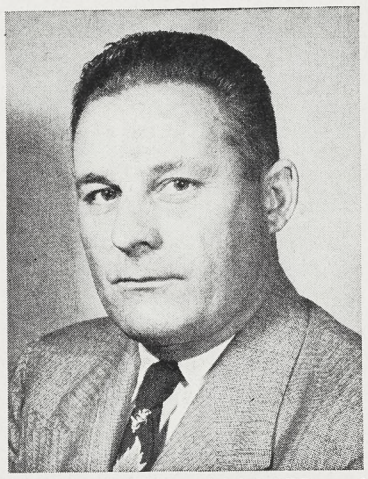
The change in paperwork came as the result of a study made by John Foote, Production Engineering; Hap Herdrich, Industrial and Plant Engineering; and Jack Mannion, Quality Control.

To familiarize key personnel with the changes required, Production Engineering, with an assist from Industrial Training, has arranged a training program of two weeks' duration. About 800 to 1000 Norcrafters will be oriented in the new paperwork.

The classes began last Monday, with Leonard Judd, Ron Klein, Tom Tripp, Ross Earp, and John Shanelec, all of Production Engineering, as instructors. Representatives of Quality Control are sitting in to answer questions regarding inspection.

Quality Control Norcrafters—including Larry Moir, Leonard Brewer, and Woody Gwyn—cooperated with Production Engineering in preparation of the new paper.

Elected



WORSHIPFUL MASTER of Tehachapi Masonic Lodge 313 for year is John Birt, Muroc, who was installed in office at close of year. A 12-year Norcrafter, John has been at the desert since 1943. He is leadman on instrumentation in Experimental Flight Test department.

Bamboo Boys Rack Safety Record-5,000,000 Miles

Quietly carrying on a tradition of safety are the crews of the colorfully-named "Bamboo Fleet", the group of company-owned airplanes used extensively in the transport of passengers and parts to outlying facilities.

Bamboo Fleet Crew Chief Orby Blair, Norcrafter since 1942, and on the crew since 1945, points with pride at the record racked up by the airplanes. They have traveled, up to a recent count, a total of more than five million passenger-miles during 8,000 flying hours with only two minor accidents involving trifling damage to the aircraft. There were no injuries.

A Lodestar, obtained from Australia; a Beechcraft AT-11; and a Beech Bonanza are the currently-operating ships in the Bamboo Fleet. All maintenance, including engine re-work, is done in the Bamboo Fleet hangar; only welding and fabrication of parts and engine overhaul is done outside.

A district CAA representative makes periodic inspections of the aircraft, Orby states. CAA regulations require a regular 100-hour inspection of engine and complete airplane; every 50 hours there is an intermediate inspection. And there is an annual re-licensing inspection.

"Squawks are rare on these occasions," Orby says; "and we've never had a turn-down."

Almost as interested in the affairs of the Bamboo Fleet as its present crew are the "alumni" of the organization. Well known to Norcrafters, the "graduates" include Carl Hoffman, now superintendent of Flight Service Administration; John Vilarino, foreman of Manufacturing Operations at Ontario; Mark Berry, Customer Service tech rep; Glen Livingston and Tommy Montgomery, of Florida; and a number of others.

The Bamboo Fleet operates under the jurisdiction of the Flight department's Hawthorne Flight Operations section, headed by Bill Kerr.

BAMBOO FLEET CREW—photo'd by cameraman between shifts. Kneeling, from left: E. A. Neukam, Ernie Nadal, and J. P. Rallo, days; Al Muner and Al Huckell, nights. Standing: Orby Blair, day crew chief; R. L. Johnson, night crew chief; Ben Fukuzawa and George Goslin, nights. Latter is Field and Service mechanic; all others hold A & E certificates. Norcrafters Nadal and Huckell maintain radios on all company-owned airplanes. Crew is now stationed in old Northrop Aeronautical Institute hangar (now Plant Four).

NIGHT CREW of Bamboo Fleet works on company-owned Lodestar, "workhorse" of fleet. Selecting tool, lower left, is Al Muner. In nose, making adjustment on radio, is Al Huckell. Crew chief Bob Johnson is seated on ladder; while working on engine are Ben Fukuzawa, left, and George Goslin. Airplanes undergo periodic inspection; excellent maintenance is proved by outstanding safety record of airplanes, which are in almost constant daily use between company facilities at Ontario, Palmdale, Muroc, and home base of Hawthorne.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 1)

WILSHIRE & WESTERN or Vermont, Los Angeles. ALBERT S. FANELLI (5587-166, Ext. 1973), DU. 2-9435. 12-1

WESTERN & SLAUSON. (Interested in car pool), Los Angeles. CLAUS J. BRUEMMER (7210-247, Ext. 1875), AX. 1-5648. (12-1)

OLYMPIC & VERMONT. (Can pick up anywhere along Crenshaw Blvd.), Los Angeles. CHARLES CARRON (5587-184, Ext. 791), DUnkirk 2-9480. (12-1)

(Zone 3)

FIRESTONE BLVD. & CENTRAL AVE. (Room for 5 riders), Los Angeles. ALBERT SEALS (5587-350, Ext. 1973), LU. 0339. (12-3)

WHITTIER BLVD. & SYDNEY DRIVE. (Route: Whittier, Soto, Slauson, Western or Broadway), Los Angeles. RODOLFO D. LEAL (5588-336, Ext. 1529), AN. 1-4386. (12-3)

(Zone 4)

AVALON BLVD. & 90TH ST., Los Angeles. Room for 5 riders. ALEX FRANCE (5517-95, Ext. 527). 12-4

(Zone 5)

OLIVE ST. & ALAMEDA, Compton. GLENN A. STRAUBE (5586-104, Ext. 1973), NE. 23097.

(Zone 7)

CROCKER AVE. & 184TH. (Interested in car pool), Gardena. WILLARD F. PFINGSTON (5501-350, Ext. 2200). (12-7)

(Zone 8)

WESTERN & 254TH. (Between Lomita Blvd. & Highway 101), Harbor City. CHARLES H. HANSEN (5534-97, Ext. 2244), DAvenport 6-4306. (12-8)

(Zone 10)

AVIATION BLVD. & MANHATTAN BEACH BLVD., Manhattan Beach. GEORGE TIMAR (5222-345, Ext. 1919). (12-10)

(Zone 13)

MAIN & BROOKS, Venice. RAY KIEFT (5538-38, Ext. 525). (12-13)

(Zone 14)

WASHINGTON AND LA BREA, Los Angeles. DAVID D. HOHENSEE (5503-505, Ext. 2681), YOrk 1516. 12-14

FAIRFAX & SANTA MONICA, Hollywood. JOE DINATALE (5587-356, Ext. 1973), HO. 4-3808. (12-14)

7:30 a.m. — 4:15 p.m.

(Zone 1)

HOLLYWOOD & HILLHURST, Los Angeles. MARVIN H. MALER (3330-69, Ext. 424), NO. 1-9817. 13-1

WESTERN & WILSHIRE, Los Angeles (5). Route: Western or Crenshaw. BURTON CLARK (9320-105, Ext. 1681 or 1682), DU. 2-9435. 13-1

BROADWAY, Glendale. Route: Western, Crenshaw or Vermont. RALPH REID (5904-28, Ext. 2661), CItrus 2-2764. 12-1

(Zone 2)

ARROYO SECO & FAIR OAKS, South Pasadena. Interested in car pool. R. W. LEARY (9340-35, Ext. 2263), SY. 9-2172), 13-2

(Zone 5)

DEL AMO & PARAMOUNT BLVD., Lakewood. R. LOYD (7000-42, Ext. 2361), L.B. 50597. 13-5

AVALON & OLIVE, Gardena. Route: Figueroa, Vermont or Normandie. C. H. FOURNIER (3410-111, Ext. 1816), MEnlo 4-8787. 13-5

(Zone 8)

COMPTON & CRENSHAW, Gardena. Car pool or ride o.k. RAYMOND A. MAGIN (3530-147, Ext. 1927), ME. 9-3760. 13-8

CRENSHAW BLVD. & 190TH ST., Torrance. BEARL E. RAKE (3250-309, Ext. 2777). 13-8

(Zone 9)

PACIFIC COAST HWY. & VISTA DEL MAR, Redondo Beach. Interested in car pool. R. H. HOLMES (3530-52, Ext. 463 or 423), FR. 5-1528. 13-9

(Zone 12)

STEWART AVE. & 83RD ST.—Westchester. Prefer car pool. PAUL SEIDE (3272-109, Ext. 12741). 13-12

(Zone 13)

WASHINGTON & SEPULVEDA, Culver City. Prefer car pool. B. D. KAMBERG (3270-347, Ext. 2034), EX. 7-7750. 13-13

WESTWOOD BLVD. & OLYMPIC or Pico, Los Angeles. H. T. RIVAS (3270-62, Ext. 1865). (13-13)

(Zone 14)

CRENSHAW & ADAMS or Washington, Los Angeles. JOHN COLLINS (8320-62, Ext. 2011), RE. 2-4242. (13-14)

RIDES OFFERED

7:30 a.m. — 4:15 p.m.

(Zone 14)

SAN FERNANDO RD. & LANKERSHIM, Sun Valley. Route: Lankershim, Pass, Highland or Cahuenga to Wilshire, Crenshaw. Interested in car pool. HARRY BERG (5970-36, Ext. 2161), Chase 77684. 13-14

7:30 a.m. — 5:15 p.m.

(Zone 1)

ROSEMONT & MONTROSE AVE., Montrose. Route: Verdugo Road, San Fernando Road, Arroyo Seco Parkway, Harbor Freeway, Flower Street, Imperial. JOHN H. MORECROFT (3230-592, Ext. 503 & 553), CHurchill 9-6418. 14-1

(Zone 3)

SAN GABRIEL BLVD. & GARVEY BLVD. (Route: Garvey, Atlantic, Firestone, Prairie, Rosemead). A. DI NARDI 5917-880, Ext. 2541), ATlantic 6-1397. (14-3)

3:45 p.m. — 12:15 a.m.

(Zone 3)

CENTURY AND NORMANDIE, Los Angeles. Interested in car pool. JOHN BOZPIAN (5534-260, Ext. 2244), PL. 4-3568. 16-3

(Zone 8)

SAN PEDRO & WESTERN or Crenshaw, San Pedro. DON CAUGHLIN (5520-239, Ext. 1233), TE. 3-7501. (16-8)

(Zone 12)

LINCOLN & VENICE or Washington. (Interested in car pool. Prefer women riders), Venice. NELLIE SENA (5534-232, Ext. 2244), EX. 6-8401. (16-12)

(Zone 14)

HOLLYWOD & LA BREA, Hollywood (28). La Brea to Hawthorne to Broadway. HOWARD J. GENSLER (7210-256, Ext. 508), HO. 3-7137. 16-14

4:45 p.m. — 1:15 a.m.

(Zone 3)

MISSION ST. & SOUTH PALM AVE. or Valley Blvd., Alhambra. F. P. STRANGE (5621-269, Ext. 2208-2133), AT. 4-7636.

(Zone 4)

DOWNEY AVE. AND GARDENDALE, Downey. Interested in car pool. ED BATES (5232-237, Ext. 2040). 18-4

(Zone 5)

HARVEY WAY & HACKETT ST., Lakewood. Interested in car pool. ISIDORE LEVINE (5524-266, Ext. 2209), L.B. 396958. 18-5

CARSON BLVD. & WOODRUFF AVE., Lakewood. Can take three riders. LLOYD O. JOHNSON (7310-211, Ext. 522), Long Beach 399131. 18-5

ATLANTIC & AGNES ST. (Interested in car pool), Compton. MAC. R. BROWN (5503-445, Ext. 2681), NE. 8-1508. (18-5)

EXCELSIOR DR. & STUDEBAKER or Pioneer, Norwalk. JOSEPHINE C. WALLACE (5507-414, Ext. 526), TO. 3-6359. (18-5)

(Zone 9)

INGLEWOOD AVE. & REDONDO BEACH BLVD., Redondo Beach. Will alter route for riders. BERNARD M. OLDZIEWSKI (5588-253, Ext. 1529), FR. 41130. 18-9

(Zone 10)

ROSECRANS & INGLEWOOD AVE. or Hawthorne, Lawndale. BILL NEWMAN (5587-619, Ext. 1973), OS. 6-4841. (18-10)

(Zone 13)

SEPULVEDA & JEFFERSON, Culver City. GERTRUDE SOLIE (5507-229, Ext. 526), VE. 9-6069. 18-13

SANTA MONICA BLVD. & VETERAN AVE., West Los Angeles. Follow Sepulveda Blvd. to Centinela and Prairie. BERNARD BARTON (7210-250, Ext. 2206), AR. 7-1539. 18-13

12:15 a.m. — 7:00 a.m.

(Zone 7)

ANAHEIM & WILMINGTON BLVD., Wilmington. CARLETON C. KITTS (5501-845, Ext. 2200), TE. 4-6171. 19-7

Lynwood

RIDES OFFERED

7:30 a.m. — 4:15 p.m.

(Zone 12)

OCEAN PARK BLVD. & 23RD, Santa Monica. Via Century, Imperial, El Segundo or Manchester to Alameda. ROBERT LOWMAN (7100-50, Ext. 103), EXbrook 9-5511. (Car pool preferred). 13-12

Rides Wanted

7:00 a.m. — 3:45 p.m.

(Zone 1)

SLAUSON & VAN NESS, Los Angeles. BARBARA A. WOODS (5352-37, Ext. 1508), TW. 1368. 2-1

SUNSET & SILVERLAKE, Los Angeles. VAL KING (5588-504, Ext. 1529), NO. 2-1342. 2-1

WESTERN & SLAUSON. (Interested in car pool), Los Angeles. CLAUS J. BRUEMMER (7210-247, Ext. 1875), AX. 1-5648. (2-1)

(Zone 2)

NORMANDIE AND 79TH, Los Angeles (44). FRANCES M. WELCH (7050-25, Ext. 1269 or 1887), TWinoaks 4937. 3-2

ADAMS & FLOWER, Los Angeles. L. P. BAKER (7310-156, Ext. 523), RI. 4286. 2-2

HOOVER & 62ND ST., Los Angeles. NORBERT H. NELSON (6720-49, Ext. 1402), PL. 1-0729. 2-2

VERMONT & MANCHESTER, Los Angeles. ELAINE V. WORREL (1435-20, Ext. 2761), PL. 1-1648. 2-2

HOOPER AVE. & EAST 22ND ST., Los Angeles. GEORGE N. FREEMAN (5588-314, Ext. 2619). (2-2)

(Zone 3)

HOOVER & MANCHESTER, Los Angeles (44). EDITH JOINER (5507-98, Ext. 564), PL. 2-8476. 2-3

SLAUSON & HOOPER ST., Los Angeles. JOHN M. RODRIGUEZ (5587-57, Ext. 1947), AD. 3-7794. 2-3

FOSTER RD. & CARMENITA, Norwalk. ALICE F. COX (5524-159, Ext. 2209). 2-4

(Zone 5)

OLIVE ST. & ALAMEDA, Compton. GLENN A. STRAUBE (5586-104, Ext. 1973), NE. 2-3097. 2-5

ATLANTIC & SOUTH ST., Long Beach. EULES W. SANDERS (5503-134, Ext. 2681), L.B. 29-980. (2-5)

(Zone 7)

CROCKER AVE. & 184TH. (Interested in car pool), Gardena. WILLARD F. PFINGSTON (5501-350, Ext. 2200). (2-7)

(Zone 8)

COMPTON & CRENSHAW, Gardena. RICHARD B. PETERS (5503-358, Ext. 2681), OS. 5-3841. 2-8

WESTERN & 254TH. (Between Lomita Blvd. & Highway 101), Harbor City. CHARLES H. HANSEN (5534-97, Ext. 2244), DAvenport 6-4306. (2-8)

CABRILLO & CARSON, Torrance. ANN STEVENSON (5353-88, Ext. 1628), FA. 8-1144. (2-8)

(Zone 9)

COMPTON & PRAIRIE, Lawndale. KATHLEEN T. RHODES (5503-721, Ext. 2431), OS. 6-8346. 2-9

(Zone 10)

HWY. 101 & 6TH ST., Hermosa. ROSALIE M. KRAUSE (5507-327, Ext. 526), FR. 4-9613. 2-10

PIER AVE. & HUNTINGTON LANE, Redondo Beach. C. V. CUNNINGHAM (5504-62, Ext. 1424). 2-10

OCEAN GATE OR ANZA & 139TH, Hawthorne. EDGAR G. FILLMORE (5504-181, Ext. 1424), OS. 6-6782.

HAWTHORNE & 132ND, Hawthorne. MILDRED SAGE (5544-178, Ext. 2645), OS. 5-6592. 2-10

ROMONA & 142ND ST., Hawthorne. DOROTHY G. HOOD (5507-323, Ext. 526), OS. 5-5229. (2-10)

BROADWAY & PRAIRIE, Hawthorne. IVA ANDERSON (5162-333, Ext. 548). (2-10)

(Zone 12)

CENTURY AND INGLEWOOD AVE., Inglewood. FRANK L. HELMBOLD (5544-76, Ext. 2645). 2-12

SEPULVEDA & CENTURY, Los Angeles. A. C. MALM (5501-4, Ext. 2200), OR. 1-8356. 2-12

CENTINELA & OCEAN PARK, Los Angeles. CARL E. MOORE (5223-351, Ext. 2087), AR. 9-8329. (2-12)

AIRPORT & MANCHESTER or Century, Los Angeles (45). FRANCES GIBSON (5338-33, Ext. 504), OR. 7-2217. 2-12

(Zone 13)

KELSO AND MYRTLE, Inglewood, two blocks west of Prairie Ave. VIVIAN HUFFMAN (5508-160, Ext. 2764), OR. 2-9267. 2-13

(Zone 14)

ANGELES VISTA & SLAUSON, Los Angeles. B. W. JOHNSON (7230-44, Ext. 575), AX. 2-7026. 2-14

SANTA BARBARA & CRENSHAW, Los Angeles (8). JUANITA PARRACK (1435-21, Ext. 2761), AX. 3-0563. 2-14

CRENSHAW & 67TH, Inglewood, or anywhere along #5 car line. R. E. JAMES (5588-373, Ext. 1529). 2-14

FAIRFAX & SANTA MONICA, Hollywood. JOE DINATALE (5587-356, Ext. 1973), HO. 4-3808. (2-14)

7:30 a.m. — 4:15 p.m.

(Zone 1)

THIRD AVE. & 42ND ST., or Vernon, Los Angeles. GLADYS M. YORK (6150-48, Ext. 558), AX. 2-5787. 3-1

RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 1)

HOLLYWOOD & WESTERN, Hollywood. RICHARD LARSEN (5585-128, Ext. 1381), HO. 2-2965. 3-1

HOLLYWOOD & HILLHURST, Los Angeles. MARVIN H. MALER (3330-69, Ext. 424), NO. 1-9817. 3-1

(Zone 2)

ARROYO SECO & FAIR OAKS, South Pasadena. Interested in car pool. R. W. LEARY (9340-35, Ext. 2263), SY. 9-2172), 3-2

NORMANDIE & FLORENCE. (Ride home only), Los Angeles. PAT PENINGTON (1441-77, Ext. 691). PL. 1-0313. (3-2)

(Zone 3)

VERMONT & CENTURY or Manchester, Los Angeles. GENEVIEVE LEES (4230-13, Ext. 631), PL. 6-5186. 3-3

(Zone 4)

IMPERIAL HWY. AND FIGUEROA ST., Los Angeles (61). CECILIA M. SULLIVAN (7010-17, Ext. 1911), PLymouth 6-4458. 3-4

FIGUEROA & IMPERIAL or El Segundo, Los Angeles. ELINORE THOMAS (1210-18, Ext. 447), PL. 4-9194. 3-4

TWEEDY & LONG BEACH BLVD., South Gate. H. W. THOMAS (3230-710, Ext. 581), LO. 9-3624. (3-4)

(Zone 5)

VERMONT & 135TH, south of El Segundo Blvd., Gardena. JEAN BARNETT (7010-27, Ext. 1911), PL. 4-3880. 3-5

(Zone 7)

WESTERN & 168TH ST., Gardena. VIVIAN STANFORD (6150-43, Ext. 2614), MEnlo 4-1876. (3-7)

(Zone 8)

YUKON AND 133RD STREET, Hawthorne. PATTY EUBANK (5127-55, Ext. 2747), OSborne 6-8158. 3-8

CRENSHAW BLVD. & 156TH ST., Gardena. JOHN K. DAWSON (8100-46, Ext. 2771), MEnlo 4-7762. 3-8

CRENSHAW & 174TH STREET, Torrance. JOYCE RANZENBERGER (3148-742, Ext. 495), ME. 4-9618. 3-8

COMPTON & CRENSHAW BLVDS., Gardena. Car pool or ride o.k. RAYMOND A. MAGIN (3530-147, Ext. 1927), ME. 9-3760. 3-8

(Zone 9)

PACIFIC COAST HWY. & VISTA DEL MAR, Redondo Beach. Interested in car pool. R. H. HOLMES (3530-52, Ext. 463 or 423), FR. 5-1528. 3-9

(Zone 10)

WASHINGTON & 134TH or HAWTHORNE BLVD. & 134TH, Hawthorne. ELEANOR J. JAMESON (9500-19, Ext. 2254), OS. 5-1792. 3-10

GOULD LANE AND REDONDO BEACH BLVD., Redondo Beach. LYNNE KURZYNIEC (4300-27, Ext. 729). 3-10

HIGHLAND AVE. & 6TH ST., Manhattan Beach. BARBARA J. BOTT (3310-109, Ext. 414), FRontier 4-8359. 3-10

HAWTHORNE & 147TH or Prairie & 147th. Lawndale. HAZEL E. PATTILLO (9370-22, Ext. 437), OS. 5-4547. (3-10)

(Zone 12)

STEWART AVE. & 83RD ST.—Westchester. Prefer car pool. PAUL SEIDE (3272-109, Ext. 1274). 3-12

RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 12)

SEPULVEDA & 76TH. (Mondays, Wednesdays, and Fridays only), Los Angeles. DAVID R. STUETTIG (3230-123, Ext. 2168), OR. 7-1269. (3-12)

(Zone 13)

WASHINGTON & SEPULVEDA, Culver City. Prefer car pool. B. D. KAMBERG (3270-347, Ext. 2034), EX. 7-7750. 3-13

CENTINELA & LA BREA, Inglewood. MARGE HAWKINSON (8400-30, Ext. 1406-1407-1408), ORegon 8-9772. 3-13

WESTWOOD BLVD. & OLYMPIC or Pico, Los Angeles. H. T. RIVAS (3270-62, Ext. 1865). (3-13)

(Zone 14)

SAN FERNANDO RD. & LANKERSHIM Sun Valley. Route: Lankershim, Pass, Highland or Cahuenga to Wilshire, Crenshaw. Interested in car pool. HARRY BERG (5970-36, Ext. 2161), Chase 77684. 3-14

GOWER & FRANKLIN or Hollywood, Hollywood. RUTH CARTER (3140-746, Ext. 466), HO. 2-9050. 3-14

HYDE PARK AND LA BREA, Inglewood. HAZEL STEWART (9500-18, Ext. 2254). 3-14

BUCKLER & 61ST ST., Los Angeles. MARY K. JOHNSON (8320-50, Ext. 2011), AX. 2-7026. 3-14

OXNARD & LANKERSHIM, North Hollywood. JOSEPH SUSCA (3410-94, Ext. 1348), SUnset 2-9880. 3-14

CRENSHAW & ADAMS or Washington, Los Angeles. JOHN COLLINS (8320-62, Ext. 2011), RE. 2-4242. (3-14)

7:30 a.m. — 5:15 p.m.

(Zone 1)

ROSEMONT & MONTROSE AVE., Montrose. Route: Verdugo Road, San Fernando Road, Arroyo Seco Parkway, Harbor Freeway, Flower Street, Imperial. JOHN H. MORECROFT (3230-592, Ext. 503 & 553), CHurchill 9-6418. 4-1

(Zone 4)

IMPERIAL & FIGUEROA, Los Angeles (61). LOU ELLA MARTIN (3310-72, Ext. 462). 4-4

(Zone 5)

CARSON & BELLFLOWER, Lakewood. J. L. ELLIS (3230-520, Ext. 1873-1570), L.B. 50052. 4-5

3:45 p.m. — 12:15 a.m.

(Zone 1)

SANTA BARBARA & NORMANDIE, Los Angeles. EDWIN C. KENT (7210-246, Ext. 508), AX. 2-5989. 6-1

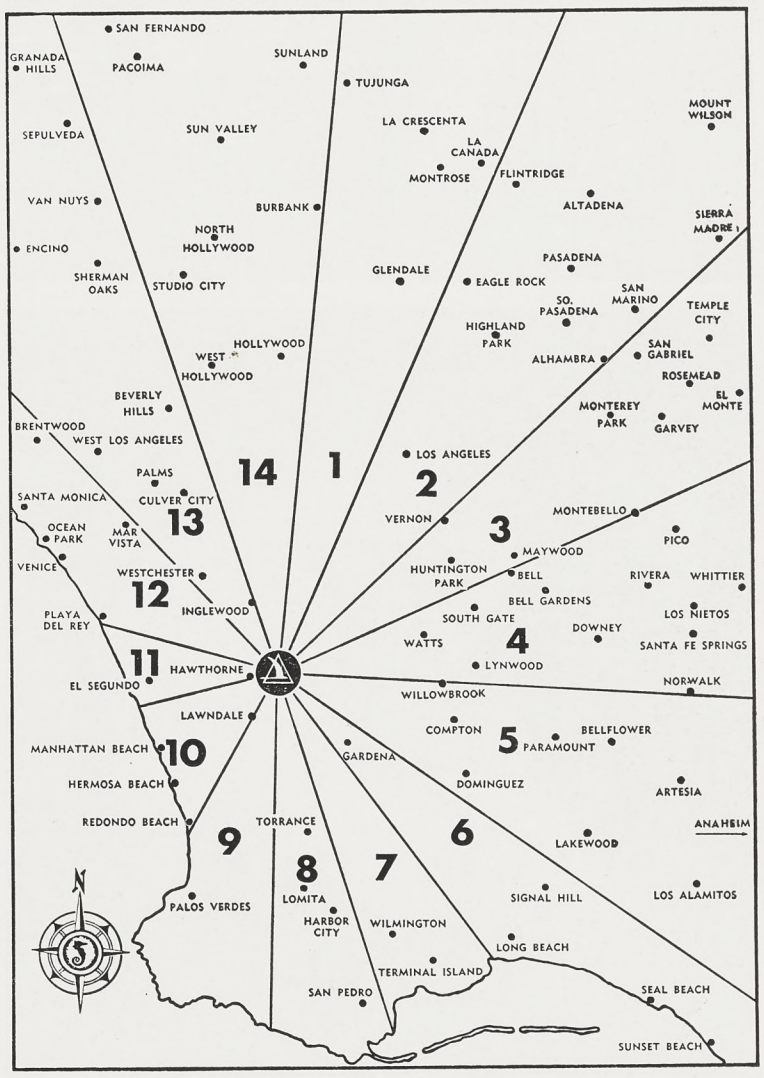
(Zone 2)

SAN PEDRO & 41ST., Los Angeles. AARON MALLARD (5588-438, Ext. 1529), AD. 3-1767. (6-2)

(Zone 3)

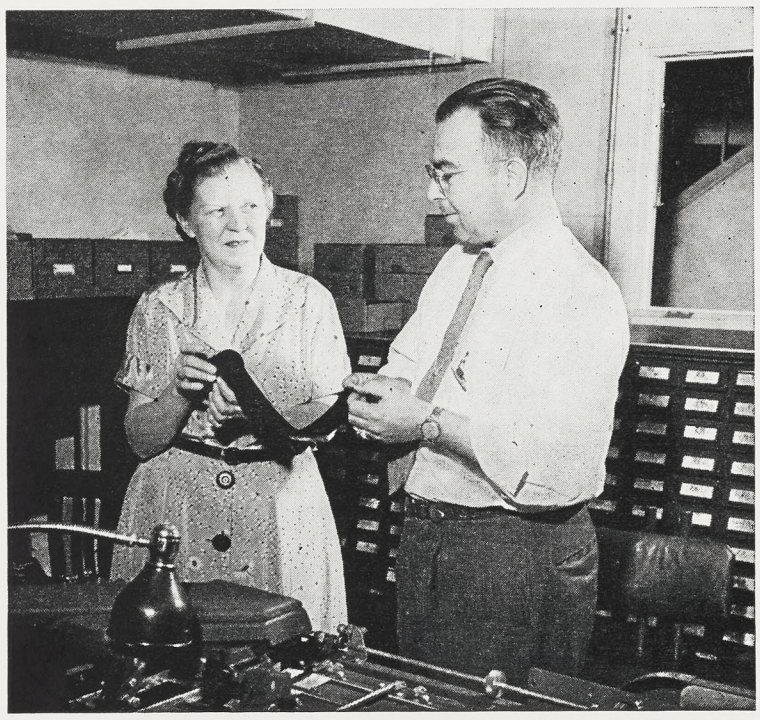
CENTURY AND NORMANDIE, Los Angeles. Interested in car pool. JOHN BOZPIAN (5534-260, Ext. 2244), PL. 4-3568. 6-3

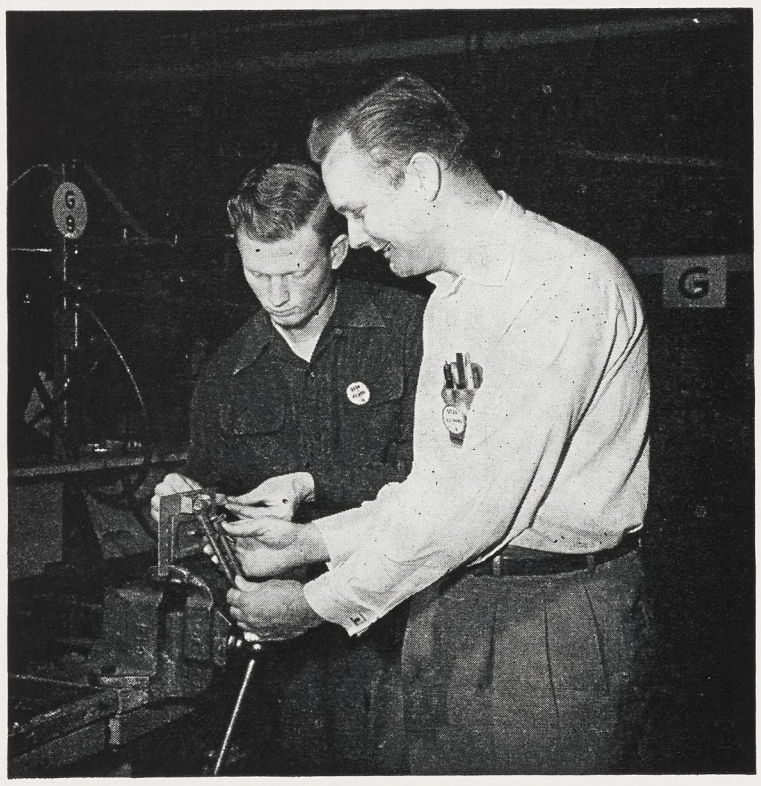
(Continued on Page 8)



Norcrafters Headline

PROUD WINNERS of "First of Class" and "Best of Show" in Pacific Sports Car Club's "Concourse d' Elegance" benefit for March of Dimes. Left, Cliff Bundy, Schedules and Change Control, proudly holds trophy for Best of Show won by his Jaguar Mark IV. Queen of show was Northrop's own Dolores Feck, Plant Two Specifications, shown presenting Special Awards trophy to Adolph Deutsch, MGM musical director, who won the award with his Aston-Martin D-B 2.





RIBBONS—! Possibly applicable in number of departments is idea advanced by Betty Emery, left, Timekeeping, who is shown with Supervisor Ted Belitz. She found that addressograph ribbons can be reversed after first run by cutting off clips on either end and stapling them on again . . . thus doubling normal use of addressograph tape.

PAYOFF for Mat Con idea in Sub-Assembly came in form of Suggestion Award to A. L. Barnes, right, leadman in Department 5524. Barnes' idea, which he is showing D. F. Boese, resulted in gadget used to install spring in assembly. Gadget was built by "gadget" section of department, under direction of Don Fisk. Result is easier job.

Night Shift Toastmaster In Area Win

Nor-Air 1398 — night shift Toastmaster organization — was sitting on top of the TM world last week after one of its members, Dave Leedy, Tool Control Norcrafter, won top honors over representatives of six other Toastmaster groups.

Leedy's feat qualifies him for further speak-offs against other area winners, the next steps on a road which leads the eventual champ to the TM international convention in Washington, D.C.

Other Norcrafters appearing on the program were: Lee Rondot, who led the Pledge of Allegiance; Jack Akin, Table Topics master for the first portion of the meeting; Paul Monroney, member of the Inglewood club, John Enright, of the Northrop club and Tony Gayou of the Nor-Air club, who participated in the Table Topics program; and Jack Jeffcoat, who represented the Northrop club #212 in the formal speak-off contest.

The after-dark orators consider Leedy's win a significant one — they have been organized for only six months, and Leedy's triumph is already the second major one racked up by a member.

Last November, J. Ward Newton, Standard Tooling, won the Humorous Speech contest in the area.

Moral support for Leedy in his recent effort was not lacking. All except one of the night shift members was present for the meeting.

GEM, MINERAL CLUB ORGANIZED FOR GEOLOGISTS

Another new NRC activity, the NRC Gem and Mineral Club, will hold its first meeting on March 24, at 7:30 p.m., in the Buffet Room of the NRC Clubhouse, and on every fourth Wednesday of each month thereafter.

All rock hounds, amateur geologists, lapidaries, mineralogists, and others are invited to attend.

Norcrafter Ballet

PROSPECTIVE PAVLOVAS — NRC Ballet Class, newest women's activity, receives enthusiastic support from, left: Lucy Denny, Mail Control; Helen Guleserian, Engineering Publications; Rocky Bender, Tool Fabrication; and Marge Barker, Tool Engineering and Planning. Weekly classes under the direction of Donald Journeaux, former Sadler-Wells choreographer, will start on March 18 at 8:00 p.m. at NRC Clubhouse—50c a class. For further information contact Personnel Activities and Services, Extension 2784.

Old Aircraft Come Back Norcrafter Hobby Shows

OLD AIRPLANE MAN—. Among air enthusiasts interested in flying old airplanes is Ray Beste, technical illustrator in Art Service, shown in front of 1930 Waco INF. Al Schmidt, technical writer, same department, does maintenance.

Old airplanes — like old cars — are making a comeback currently in the Southland; and among the increasing number of old aircraft enthusiasts who are engaged in refurbishing and flying venerable "crates" are at least two Norcrafters — Ray Beste and Al Schmidt.

Ray is a technical illustrator in Art Service, and he is spending week-end time flying a 1930 Waco INF belonging to a friend, Larry Billeter. Maintenance of the restored aircraft is in the hands of Al Schmidt, technical writer also in Department 8320, who is a licensed A & E mechanic.

The Waco flies beautifully, Beste says, even though it is past voting age. It is a bi-plane, powered by a 125-horsepower Kinner engine, and Ray has flown it several times in the Redondo-Palos Verdes area.

Both Ray and Al report that there is a revival of interest in the old airplanes, with about a dozen flying in this region, and another dozen being restored to flight condition. Al is engaged in restoring a 1930 Fairchild KR-21 bi-plane.

There is also a movement afoot, Beste states, to form an organization among the old airplane adherents. Fun of flying vintage '30 aircraft is only part of the reason.

The other is an altruistic one —the preservation of the printed material — stories and photographs — now buried in trunks, boxes, and garages for their historical value.

"There must be a mountain of that type of material in Norcrafters' hands," Ray concluded. "And there must be scores of people who are interested — as Al and I are — in flying old planes. I'd sure like to get in touch with them . . ."

AT PERSONNEL ACTIVITIES

ACCOMMODATION PURCHASES for sporting goods, NRC club equipment, and camping paraphernalia.

HOUSING lists—for rent, to rent, sale or trade.

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

TYPEWRITER, Underwood noiseless, standard, elite type, $45. OS. 5-2496. A

TIRES, three 6:50x16, six ply, grade one, like new, never used or mounted, list price $36.60 each, will sell for $25 each or three for $65. ENGELBERT H. RUSA, OSborne 5-2852. A

RIFLE, Remington Model 721, 30-06, K 2.5, mount, pad, case, shells sighted in, $120. BILL NEWMAN, OS. 6-4841. A

ACCORDION, 120 bass, all white, 3 switch, good condition, cost new $475, will sell for $250 cash. FRANK F. RUTAR, jr. Reply in writing to Northrop News, Box 1608. A

WHEEL DISCS for '53 Olds, used, $10. R. FELKER, MEnlo 48329. A

BROODER, upright electrical, capacity four dozen chicks, $50. R. C. CHILDERS, PL. 50534. A

HOUSE TRAILER, 1952 Roadmaster, 29', excellent condition, $2500. RUTH WEASEL. Reply in writing to Northrop News, Box 1601. A

FORD 2-door sedan, 1939, radio, heater, like new, good gas mileage, new brakes, 1948 Mercury engine, $125. MEnlo 4-0364 or MEnlo 4-2300. A

SILVER COCKER SPANIEL, 3-year-old, female, AKC registered, champion stock, ideal pet for children, $50. LESTER C. DICKSON, NE. 5-5332. A

FORD Victoria, late '53, only 6500 miles, Fordomatic, radio and heater, tinted glass, w/w tires, underseal, $2200. MELVIN F. SLADE, OS. 6-0940. A

RUGS—One 9'x12' and one 14'x18'; imported Chinese rugs, with heavy duty pads; set of fireplace andirons, solid brass, with imitation logs. JOHN W. KORN, PL. 6-3845. A

MUFFLER SET for '42 to '48 Mercury; child's tube-frame STROLLER; CRIB AND MATTRESS; any reasonable offer. A. H. MANN, VErmont 8-2988. A

DINING ROOM SET, table, six chairs and buffet, dark, solid walnut, $70. E. M. ATHAY, jr., PLeasant 2-3571. A

TELEVISION, portable 7", good condition, Motorola, $50. MARCOS V. AGUIRRE, CA. 14801. A

SILVER FOX STOLE, best quality, beautifully marked, perfect condition, cost $300, will sacrifice for $100. B. BARTON, ARizona 7-1539. A

HOUSE, 3-bedroom, 1 year old, w/w carpeting, drapes, landscaped, low down payment, North Redondo Beach, $10,000. PAT DOBERSTEIN, FR. 9-2742. A

CHEVROLET 1939 club coupe, new brakes, radio and heater, good tires, excellent transportation, $110. G. SIGURDSON, OR. 7-2340. A

OUTBOARD MOTOR, 1952, 19.6 cubic inch Mercury Hurricane, remote control, 2 props, 5 gallon pressure gas tank, approximately 75 hours running, like new. R. L. FORD, OR. 7-6272 after 5 p.m. A

CROSLEY 1949 station wagon, good engine and tires, good transportation car, 39 miles per gallon, $125. ELLEN TRAINOR, ME. 91766 before 4 p.m. A

GOLF CLUBS, metal shaft, excellent conditions; irons—#2, #5 and #7; wood—#3; $9.95. FRANCIS J. WHITE, ORchard 7-0742. A

TELEPHOTO LENS, Nikkor 135mm f3.5 for Leica, Contax, etc., or movie; list price $149, $50. ROBERT L. LLOYD, PL. 5-0968. A

FREEZER, 14', upright, 1 year old, good condition, $60 down, $8 per month, $200. REUBEN OIAN, PL. 6-1191. A

WIDE-ANGLE LENS for Argus C-3 or C-4 camera, adapter and leather case included, like new, $7. ALBERT S. FANELLI, DU. 2-9435. A

MOTORCYCLE, 1953 Harley, '165', lightweight, like new. A. A. BEYER. Reply in writing to Northrop News, Box 1604. A

WIRE RECORDER, Webster-Chicago, Model 178, made for custom installation, but is now modified for portable use, used very little, $60. R. FELKER, MEnlo 4-8329. A

BENCH SAW, Craftsman "80", 8" tilting, like new, complete with stand, sawguard, miter, rip fence, motor, pulley, belt, combination blade, $114.70 value—$65 cash. W. A. PEFFER. Reply in writing to Northrop News, Box 1605. A

HOUSE—2-bedroom, stucco, 4 years old, double garage, corner lot, fully tiled kitchen and bath, $9,950. H. L. WARD, FR. 4-3890.

M-G M.K. II, radio, heater, tire cover, luggage rack, $1425. E. T. HAMPTON. Reply in writing to Northrop News, Box 1611. A

FOR SALE

CADILLAC 62, 1950 4-door, radio, heater, white sidewalls, Lifeguard tubes, water injection, 28,000 miles, original owner, $2000. W. R. SLAGG, FR. 5-3647. A

HOUSE—2-bedroom, double garage, Torrance, $7300—$1000 down, second mortgage balance of $5300 at $47 per month; house now renting for $75 per month. EARL M. PRACHT. Reply in writing to Northrop News, Box 1607. A

COMPLETE RABBITRY — Lath house, hutches, complete automatic water system, nest boxes, crocks and hide stretchers, can be easily knocked down and moved, $150 cash; GARAGE DOOR, all aluminum, and hardware for installing for single car garage, $30. E. N. WALDEN. Reply in writing to Northrop News, Box 1602. A

URANIUM PROSPECTING EQUIPMENT, Geiger counter, phones, samples of ore, spectroscope and instruction book, $75; serviceable AIRPLANE PROPELLER for twin Cessna, or could be mounted in a den, $8. J. K. DAWSON, MEnlo 4-7762. A

LAPIDARY EQUIPMENT—Complete including fusion-bond, diamond saw, three motors, $175; child's chain drive TRICYCLE, $10; child's chain drive AUTO, original cost $25, will sell for $10. LEE B. JOHNSON, FRontier 5-4910. A

HIDE-A-BED, Simmons; eight-piece DINING ROOM SET—drop-leaf table and four chairs; various odd pieces; PLYMOUTH, 1946 sedan, new paint, very clean inside, runs very good, $350. JANET DOUGLAS, PLymouth 4-2726. A

HOUSE—2-bedroom, 2-car unattached garage, dual gas floor furnace with thermostat control, fenced backyard, close to school, one and a half years old, G.I. resale, $10,695—$1800 down. BARBARA POLZIN, FRontier 5-5796. A

PLYMOUTH, 1950 deluxe coupe, very good tires, mileage 32,000, must see to appreciate, original owner will sacrifice. price open; BICYCLES, two boy's standard Schwinn, one in very good condition; the other older but suitable for long service, priced right for quick sale. VIRGINIA I. PERRY, ORchard 2-5487. A

FORD, 1941 Tudor sedan, new seat covers, metallic green paint, $99. PHIL SANCHEZ, FR. 2-5011. A

PLYMOUTH, 1947 sedan, motor like new, good tires, A-1 condition, $495; TYPEWRITER, Underwood portable, 3 years old, like new condition, $65. HARRY ALLEN, OS. 6-8842. A

JIG SAW, Craftsman, cuts to 36" circle, complete with motor, very good condition, $30; ACCORDIONS, two red mother of pearl 120 bass, 2 switch, cost $600 year ago, your choice only $100 each. JOHN J. JANCA, FRontier 9-2065. A

REFRIGERATOR, G E., runs fine, $25. AL YEAGLE, OSborne 5-6007, after 5 p.m. A

ADDING MACHINE, Clary electric, used 2 weeks, $150. PL. 5-9258. A

MERCURY, 1946 club coupe, clean and has nice paint job, very good transportation car, $400. C. M. SULLIVAN, PL. 6-4406. A

SAILBOAT, 16' Comet sloop, mahogany hull, oak ribs, fine suit of sails, custom launching trailer, entire rig like new, $425. DOUG MCCLURE, LAmbert 5-2087. A

CAMERA, Contax II A, like new, Sonnar F 1.5, $250. TIM B. SEMAN, AR. 8-3990. A

REFRIGERATOR, Servel gas, good condition, guaranteed, $50. D. H. BRILEY, OS. 5-3500. A

RESIDENTIAL LOTS, three adjoining lots, 15 miles from Palmdale, located in Rancho Green Valley, water service on each lot, lots measure 50' X 150', $1330 each. EDWARD S. BAKER, PL. 4-9549. A

HOBBYISTS—Parts for the radio experimenter or gadgeteer, priced according to amount purchased. B. BINGE, FR. 5-4358. A

DESERT AIR LAMP, children's lawn SWING, Detecto baby SCALES, child's JUMPING HORSE, 2 TRICYCLES, upholstered arm CHAIR, maple finished double BED with coil springs and mattress, reasonable prices. SHERWOOD H. BROWN, FRontier 9-2628. A

VIOLIN, three-quarter size, almost new, $15. D. P. ARMSTRONG, OR. 7-4054. A

INVALID CHAIR, battery powered, "Widgit," operates on two 6-volt batteries, price includes battery charger, $100. R. OIAN, PL. 6-1191.

FOR SALE

MOTORCYCLE, 1950 B.S.A. 500 cc, extras, clean, 10,000 actual miles, $300. J. F. SNEDAKER, OS. 5-3563. A

TV, 21" table model, Emerson, only 4 months old, picture tube guaranteed, $150; house trailer CAR HITCH, custom for Ford or Mercury station wagon, used to pull 5000-lb. trailer, also helper springs. B. R. KUHN. Reply in writing to Northrop News, Box 1619. A

MERCURY, 1949 convertible, radio, heater, overdrive, $500. AL YEAGLE, OSborne 5-6007. A

SAILBOAT, 23', recently painted, good sails, permanent keel, rigged for outboard, sell all or part interest. G. D. YATES, FR. 2-2412. A

SHOTGUN, Springfield double-barrel 16 gauge, in excellent condition, $40. R. S. MUTCH, OS. 6-5433. A

TYPEWRITER, Remington Noiseless, standard, like new, $45; TIRES, 4 good 6:70x15 U.S. Royal whitewalls, $30. F. DuPRIEST, L.B. 93019. A

DINING ROOM SET, 6 chairs, table with extension, buffet, solid mahogany except veneer table and buffet tops, honey colored finish, $65. H. D. HEAVERLO. Reply in writing to Northrop News, Box 1621. A

HI-FI EQUIPMENT—Lansing D130, 15" speaker, $50; Bass reflex CABINET, $20; Heath PREAMPLIFIER, $10; AM-FM TUNER and power supply, $30; or complete for $100. RICHARD J. POLLAK, VE. 8-1214. A

OLDSMOBILE "98" Holiday, 1953, 11,000 miles, power steering, power brakes, electric windows, radio, heater, whitewall tires, beautiful jet black finish, very clean, $3150. DICK SCOTT, AX. 3-5916. A

DRAFTING MACHINE, Bruning, 24" arms, 12" and 18" metal scales, 18 months old, $60. JOHN KAPON, jr. Reply in writing to Northrop News, Box 1622. A

PLYMOUTH, 1953 club sedan, overdrive, extra chrome trim, special oil filter and air filter, perfect condition, 11,000 miles, $1272 cash. WALLY HENRICH, FRontier 45412. A

DODGE 1941 panel truck, very good rubber, excellent mechanically, body o.k. DON PARKER, OS. 5-3273. A

HOUSE—Two-bedroom, North Torrance, $6500 full price—low down payment, reasonable monthly payments. DON PARKER, OS. 5-3273. A

OLDSMOBILE, 1940 4-door, good body, excellent interior, new battery, very good rubber, recent overhaul, Hydramatic, $150 or make offer. DON PARKER, OS. 5-3273. A

MERCURY, '46 2-door, good condition, radio, heater, $325. MARION P. STUBBS, OSborne 6-0489. A

BUICK, 1950 Roadmaster Riviera coupe, all extras, excellent condition; will trade. LARRY LAUER, OR. 1-3798. A

DECOLORIZED tincture of iodine, original five-gallon glass container, never opened; cost $60 wholesale, will sell for $45. ARTHUR R. HEWITT, CRestview 6-1735. A

STOVE, O'Keefe & Merritt, apartment size, Robertshaw oven control, like new, $50. J. RAYNER, OS. 5-6561. A

HOUSE—2-bedroom, concrete block, modern ranch style, 1½ baths, Thermador range and oven, dishwasher, radiant heating, ⅞ acre in Rolling Hills, view of harbor and Santa Monica bay, $25,000. C. J. DUNN, FR. 7-1102. A

BICYCLE, man's, like new tires and brake parts, spotlight, front basket and rear carrier, $15. CHANNING ELLIOTT. Reply in writing to Northrop News, Box 1624. A

OLDSMOBILE, 1942, Hydramatic, $75; TRANSMISSION, 4-speed, fits Ford truck, 1942 to 1948, $40; Ford "60" ENGINE, 1940, $10. R. W. VOGEL, MEnlo 9-1705. A

BEDROOM SET, maple, includes twin beds with mattress & springs, chest drawers, dresser and night stand, $150. Q. H. CUNNINGHAM, EX. 8-5131. A

PLYMOUTH, 1951, heater, good tires, new top, recently overhauled, excellent condition throughout; can be financed; $1095. WILLIAM DALY, OS. 6-4814. A

BICYCLE, two-wheeler, for child of six years or younger, newly painted, $8. EUGENIA KIDD, MEnlo 42817. A

HOUSE — 3-bedroom, w/w carpeting, fenced yard, water softener. garage attached, located in Manhattan Beach, G.I. loan, $1500 down, total price $10,000; will take second on balance of equity in house which will be approximately $2500. MICHAEL C. ROMANO, FRontier 2-8019. A

GUNS, 30-06 Enfield sporter, custom stock, peep sight, elevated ramp front sight, $75; 12-gauge Springfield double-barrel shotgun, good condition, $30; Navarro dual MANIFOLD, complete with "97" carbs, linkage and generator bracket, fit Ford or Mercury '32 thru '48, $25. CHARLES ZIMMERMAN. Reply in writing to Northrop News, Box 1610. A

HOUSE—2-bedroom, 1¾ baths, fireplace, garbage disposal, kitchen fan and Dishmaster, located one block from St. John's School & Church, near Prairie Ave. & Florence Ave., $5000 down—$17,000 total price. G. B. LENDY, OR. 7-2960. A

GUN, Mauser 8 MM, mounted on a sport stock, hardly fired, beautiful condition, bargain, make offer. H. W. JACKSON, FRontier 7-1074. A

FOR SALE

CHEVROLET, 1951 2-door sedan with underseat heater, standard shift, excellent condition, pearl grey color, good rubber, $900. F. G. EAGAN, WAlnut 8042. A

CAMERA, Argus C-3, projector and screen, plus filters and flash attachment, 2 years old, used very little, $85 takes all. J. HALL. Reply in writing to Northrop News, Box 1614. A

CHEVROLET, 1946 4-door, radio, heater, good condition, $295. R. LOYD, L.B. 50597. A

PISTOL, .22 caliber, Hi-Standard, Model B, 400 rounds included, $27.50; grey modern CHEST OF DRAWERS, night stand, twin headboard, $40; chenille RUG and PAD, 8'6"x10'21", $10; green floral RUG and PAD, 9'x12', $25. OSborne 6-0048. A

KAISER, 1947, original paint, rebuilt motor, spacious interior, radio, $195. K. SLOAN. Reply in writing to Northrop News, Box 1615. A

PLYMOUTH, 1948 special deluxe club coupe, all extras, clean inside and out, both original, motor and brakes recently overhauled, good rubber, best offer over $400. W. F. TEUBNER. Reply in writing to Northrop News, Box 1620. A

LOTS, two 100'x200' each, located at Lake Tahoe, Kings Beach, priced for quick sale, Long Beach 97146 after 7 p.m. NORMAN R. BAILEY. A

FISHING BOAT, 24 ft., one bunk cabin and head, 5 scoop bait tank, Ford Jeep engine with Star Marine conversion, $750. JANE McGAFFIN. Reply in writing to Northrop News, Box 1618. A

BOAT—21' long x 8' beam sport fisher, 2 bunks in cabin, newly painted, Chrysler 115 h.p. engine, $775. K. R. KUMMERFELD, NEwmark 5-2513. A

FORD '40 sedan, new paint, white sidewalls, radio, tailormade leatherette seat covers, chrome extras, twin pipes, excellent condition, make offer. BOB EARL, OR. 2-0878. A

"These jungle drums really get in your blood. It seems to say, 'Yum, yum, yumity, yumity, yum.'"

TV, 21" Majestic console, mahogany, excellent condition, picture tube warranty for one year, cost $329, will sacrifice for $150. CHARLES RACE, L.B. 40-461. A

HOUSE—3-bedroom, recently redecorated, fireplace, 1½ miles from Northrop, reasonably priced. OS. 6-2708 after 5:30 p.m. A

BICYCLE, boys' 26", completely rebuilt, repainted, new tires, $25. DOROTHY BUCKALEW, DAvenport 6-2820 after 5 p.m. A

SAILBOAT, well maintained, "Dolphin Class" 15½ ft., sloop rigged, sailing dory, two sets of sails, completely refinished and in top condition, $165; two-wheel TRAILER, designed for above, equipped with loading rollers and 6:00x16 tires, $45. PHILIP MALLEN, EX. 8-6431. A

POLAROID CAMERA with compartment case, tripod, light meter, capacitor flash, filter & close-up lens, all like new, sacrifice $100; good, clean electric REFRIGERATOR, $30. A. H. DAVIS, OS. 5-4505. A

TIRE, 7:60x15 Firestone, $20. OTTO L. EBNER. Reply in writing to Northrop News, Box 1616. A

BICYCLE, German, lightweight touring with gear-shift and double hand brakes, like new, $45. J. CHIDESTER, OR. 1-3515. A

PONTIAC, 1938 sedan, good transportation, includes '54 license, $75. El Segundo 655M, HAZEL STEWART. A

FORD, 1951 convertible, one owner, 29,000 miles, overdrive, radio and heater, red and black leather interior, very clean, $1295. C. W. GLOSE, MEnlo 9-3182—5 to 7 p.m. A

FOR SALE

TRAILER, 18' Roadmaster custom, fibre glass roof—no leaks, includes apartment stove, refrigerator, double bed, heater, cooler, comfortably furnished and recently painted inside and out, $345. A. L. KIRKHUFF, ORchard 1-1139. A

PONTIAC, 1946 4-door, good condition, $350. OR. 8-1354. A

PICKUP TRUCK, Model A, $65, runs good. FRontier 24474 after 4:30 p.m. and Saturday. A

MG, '52 model, in good condition. S. SIMON, FR. 24607. A

TOOL BOX, Kennedy Kit, approximate size 20"x6"x8", single folding shelf, like new, $15. R. SCHAPER, DU. 7-7694. A

JACKS, heavy duty, one Buda step ratchet, two Simplex ballbearing head screw jacks, 14" lift, $35. W. L. CAPPS, FR. 46642. A

HOUSE TRAILER, 22', refinished in and out, electric refrigerator, new sink and table, new linoleum, $395. STAN BRANNAN, OS. 6-9167. A

WASHING MACHINE, Easy Spin-Dry, good condition, $50. JOSEPH HANNON, ORchard 7-4439. A

HOUSE TRAILER, 1953 DeVille 14' all metal, 3-burner butane stove with oven, blond wood and venetian blinds, sleeps 4, spare tire, has 1954 plates, used only 28 days, $650—original price $1,050. DUnkirk 4-4017 after 5 p.m. A

HOUSE—6-room, Manhattan Beach, 5 blocks from ocean, sunken living-room, flagstone fireplace, open beamed ceiling, redwood woodwork, with natural birch doors, 3-car garage, small fenced in patio, 1300 sq. feet living area, $6,000 down, $16,950. FRontier 4-8343. A

GREAT DANE, 2½ years old, registered champion Eastern show stock, 6 puppies last litter, no resonable offer refused. B. R. KUHN. Reply in writing to Northrop News. Box 1627. A

DODGE, 1949 Coronet, excellent condition, all extras, $850 or highest offer. MARISE COUNSELL, OS. 6-7427. A

GOLF CLUBS, three Wilson-Sam Snead woods, used three times, retail price $48, will sell for $25; MOVIE CAMERA, Bolex H-16, latest model, three lenses, F 1.9, telephoto and wide angle with filters and carrying case, sacrifice $285. H. B. OLIVER, EXbrook 8-1353. A

EDMUNDS ALUMINUM HEADS, one pair 8½ to 1, 24 Stud — Ford or Mercury, $30; Southwind GAS HEATER, used, make offer. R. C. PETERS, OR. 7-4519. A

PIANO, upright, medium size, plays good, nice finish, $75. O. E. BLAIR, OR. 7-5281. A

REFRIGERATOR, Gilfillan 7 cubic foot, good operating condition, complete with meat and fruit compartment, and vegetable crisper, $65. W. L. ADDINGTON, DAvenport 6-1161. A

MASONS—32nd Degree Masonic diamond ring, unusual setting; also, Shrine pin with six diamonds, very reasonably priced. EXbrook 8-6867. A

RESIDENTIAL LOT, 60 x 125 in Palos Verdes Estates, all utilities in, only few blocks from center of Plaza, full price $3500, one-third down, balance at $50 or more per month including interest, will discount for cash. WILLIAM ZEBROWSKI. Reply in writing to Northrop News, Box 1632. A

MOTORCYCLE, 1946 Indian Chief, full dress, nice condition, red, $150; 1937 FORD coupe, $70. P. A. CLARKE, PL. 3-9822 after 6 p.m. A

PONTIAC, 1941 sedan, excellent condition, priced for quick sale, $250, or make offer. HELEN MC COMAS, WA. 7485. A

(Continued on Page 8)

BBSF CLASSIFIED

(Continued from Page 7)

FOR SALE

TRANSMITTER, BC-640, 6′ rack and panel, 2 meter, complete, $250; Simpson model 260 volt OHM meter, complete instructions, case included, $30; National Union picture tube CHECKER, $18.50; 8 amp. BATTERY CHARGER, $10. BILL THOMAS. Reply in writing to Northrop News, Box 1631. A

KAISER, '48, in good condition, make offer. ROBERT DU PRIEST, ORchard 7-8797. A

SEWING MACHINE, White, rotary electric, like new, full set of attachments, $100. R. OIAN, PL. 6-1191. A

SCALE MODEL, "O" gauge Hudson locomotive and tender, partly super-detailed, numerous extra scale parts, $100. A. C. PRITCHARD. Reply in writing to Northrop News, Box 1628. A

AJS, '52, 21″ rigid, excellent transportation, reasonable. AL YEAGLE, OS. 5-6007 after 5 p.m. A

FORD, 1942, 2-door Special Deluxe, very snappy, new front end, heater, recent major repairs, '54 license plates, $295. J. M. PHIPPS, FR. 5-2303. A

MOVIE CAMERA, Keystone, 8mm, projector, screen and cases, like new, $100. ERNIE WHITNEY, TOrrey 3-3254. A

TYPEWRITER, Remington, good condition, $10; house WIRE, Romex, 12-2, 400′ roll, $25; 250′ 14-2, $12; box connectors free with purchase of wire; WINDOW SASH, 4 double hung, cheap; Peter Pan portable RADIO, $4; PIANO, bungalow size, $295; Hamilton railroad WATCH, practically new, $75. FRED GARY, OR. 7-7504. A

BUICK, 1951, Special Dynaflow, $200 equity and take over payments. ELEANOR HANSEN. Reply in writing to Northrop News, Box 1612. M

WANTED TO BUY

CHEVROLET, '50 or '51 convertible, radio and heater, good condition, cash if priced reasonable. BARBARA HERMAN, OR. 2-9212. B

BABY CRIB and MATTRESS, good condition, price to be discussed. PHIL SANCHEZ, FR. 2-5011. B

TAPE or WIRE RECORDER in good condition. F. BURKE, MEnlo 9-1323. B

BICYCLE, used 20″ girl's, must be in good condition. HAROLD D. SPIVEY, OSborne 6-9374. B

YOUTH BEDS, two with guard rails. M. ORTH, FR. 4-4016. B

LAND, about 5 acres around Redlands or Yucaipa, Reasonable. JACK MEIER, PLymouth 6-6508. B

TAKE OVER PAYMENTS on 1951 or '52 Ford, Plymouth or Chevrolet. MIKE F. HOULIHAN, OR. 7-8651. B

RE-LOADING TOOLS for 12-gauge shotgun shells. D. A. WELLS, PL. 1-8816. B

STANDARD TYPEWRITER in good condition, prefer Royal. ELAINE PILLAR, OS. 6-5921. B

PIANO, small bungalow upright, or reasonable spinet; SLEEPING BAG, lightweight, down or good feather. C. W. BEACH, PL. 4-5358. B

COLLECTOR'S ITEM, horsecar, early streetcar, all ferry, omnibus, large bus, toll road fare tokens in all metal, celluloids, vulcanites and fibres, catalog prices. KENNETH SMITH, TW. 1428. B

CAR—Private party will pay cash for 1950 or '51 car, prefer Mercury, Chevrolet or Ford, must be in excellent condition. PL. 5-6610. B

PLAY PEN, reasonable. JOE CUCHIARA, OS. 56476. B

MODEL SAILING VESSEL or schooner, Mayflower type, not a miniature, to complement a den. Reply in writing to Northrop News, Box 1626. B

FOR SALE OR TRADE

HOUSE TRAILER, Spartan, 33′ Royal Mansion, modern, 1950 model, perfect condition, will take trailer in trade or cash, $2995. E. V. STEVENS, OR. 7-8042. A

FORD, 1953 V-8 convertible, radio, heater, whitewalls, Fordomatic, 17,000 actual miles, like new, original owner, will accept clean '47 or '48 Ford 2-door or club coupe in trade, $2150. H. W. JACKSON, FR. 7-1074. A

TRAILER, '52 Skyline, 21′, Eastern built, like new, best offer on $1300 equity, or trade equity for down payment on house in Hawthorne or Inglewood area. JOHN G. DEWITT. Reply in writing to Northrop News, Box 1625. A

HOUSE, two-bedroom, unfinished inside, 50′ X 150′ lot, full price $5200, my equity $2000, balance at $50 per month including 6% interest, N. Redondo, will trade for good boat, plane, lot or house elsewhere or will take $600 down on contract at 6%. JAMES FINNEGAN, FRontier 4-7296. M

CAMERA, Cannon, 1.8 lens, shutter speeds up to 1/1000 of a second, flash unit, tripod, self timer, portrait lens, and leather camera accessories bag, will take $300, or trade for hot rod or 1946 Ford in good condition. PAUL E. CAPPS, LYcoming 2-8352. M

BICYCLE, like new, Hercules, $40, or will trade for double barrel 20 or 16-gauge shot gun. D. ADKISON, NE. 1-7124. M

FOR SALE OR TRADE

STUDEBAKER, roadster, good transportation car, will trade for power lawn mower or anything of value. DON JAYNE, OR. 1-6369. M

BUICK, '41 convertible, will trade for motorcycle, $200. JOHNNY L. SMELSER, FR. 2-4437. M

TURNING LATHE, metal, 14″x48″, some tooling, reasonable, or will trade for good drill press. W. L. CAPPS, FR. 46642, mornings. M

WASHING MACHINE, Montgomery Ward wringer type with pump, over $60 in new parts, take $30 or trade for anything of equivalent value that I can use. A. C. PRITCHARD. Reply in writing to Northrop News, Box 1617. M

WILLYS EAGLE, 1953, low mileage, will take $350 for my equity, car originally cost $3400, complete. $1600 balance, or trade for truck paid for or not. J. R. STUCKER. Reply in writing to Northrop News, Box 1629. M

RECORDERS, disc, tape and wire; HI-FI SPEAKERS, and AMPLIFIERS; TV CHASSIS and TUBE; Zenith portable RADIO; K & E DRAFTING MACHINE; price open, or will trade for building materials. W. S. COOK. Reply in writing to Northrop News, Box 1630. M

BUICK, 1952, Super convertible, 18,000 actual miles, purchased new in September, 1952, $400 in additional extras, used only as a second car, '54 license plates, complete service and mileage records available, $1875, or will accept '46 or '48 Ford or sports car as part trade. J. M. PHIPPS, FR. 5-2303. M

FOR TRADE

CAMPING TRAILER—Kit Kamper with attaching tent, excellent condition, has gas stove, icebox, extra tire & wheel never used, sleeps two, wish to trade for small walk-in trailer. GEORGE FULLER. Reply in writing to Northrop News, Box 1609. C

MERCURY 1952 Monterey hard top convertible, radio and heater, whitewalls, two-tone blue, 12,500 miles, will trade $2600 equity for late model pick-up clear. J. TODD. Reply in writing to Northrop News, Box 1623. C

SHOTGUN, Winchester "97" 12-gauge 5-shot, pump, trade for good 2-wheel utility trailer, 4′6″x4′8″ bed. HANK ROSEN, ME. 9-2355. C

FREEZER, 18½ cubic foot upright Columbia, one year old, equity for sale or will trade equity for (?); make offer. S. S. HOPWOOD, EXbrook 3-5052. C

HOUSE, $2000 equity in 2-bedroom, one year old house in Gardena, for late model car. R. L. BARNES, MEnlo 4-5469 after 4:30 p.m. or Saturday and Sunday.

RENTALS OFFERED

HOUSE, new, one-bedroom, unfurnished, garbage disposal, built in TV antenna, close in, adults only, $70 month. MRS. MARSHALL. Reply in writing to Northrop News, Box 1606. E

HOUSE, two-bedroom, unfurnished, between Hawthorne and Manhattan Beach, $70 month. JIM CARTER, FRontier 4-7754. E

APARTMENT, furnished, 2-bedroom, bath-shower, large kitchen, living room, located in Torrance, $70 per month. GILBERT R. CLARKE, FRontier 2-3279 around 6:00 p.m. E

ROOM in nice home very close to Northrop, second shift employee preferred, $10 a week. BETTY McNABB, PLymouth 4-3698. E

SLEEPING ROOM, newly painted, man preferred, $7 per week. R. J. VASELEW, PLeasant 2-1152. E

APARTMENT, prefer second shift man, $11 per week, or couple, $12.50 per week. OS. 5-3113. E

APARTMENT, new, deluxe 1-bedroom, unfurnished, adults only, garage, TV plug, disposal, Laundromat, bus service, North Inglewood, $75 per month. C. B. SPENCER, OR. 2-3169. E

SLEEPING ROOM, man or woman on day shift, non-drinker, private home. FR. 2-7318. E

TRAILER, 18′, furnished complete with utilities, like new, reasonable. E. L. MURPHY, PL. 5-0641. E

ROOM, for one man, five minutes walking distance to Northrop, private entrance, $8 per week. DAVID HADDAD, OS. 6-9567. E

RENTALS WANTED

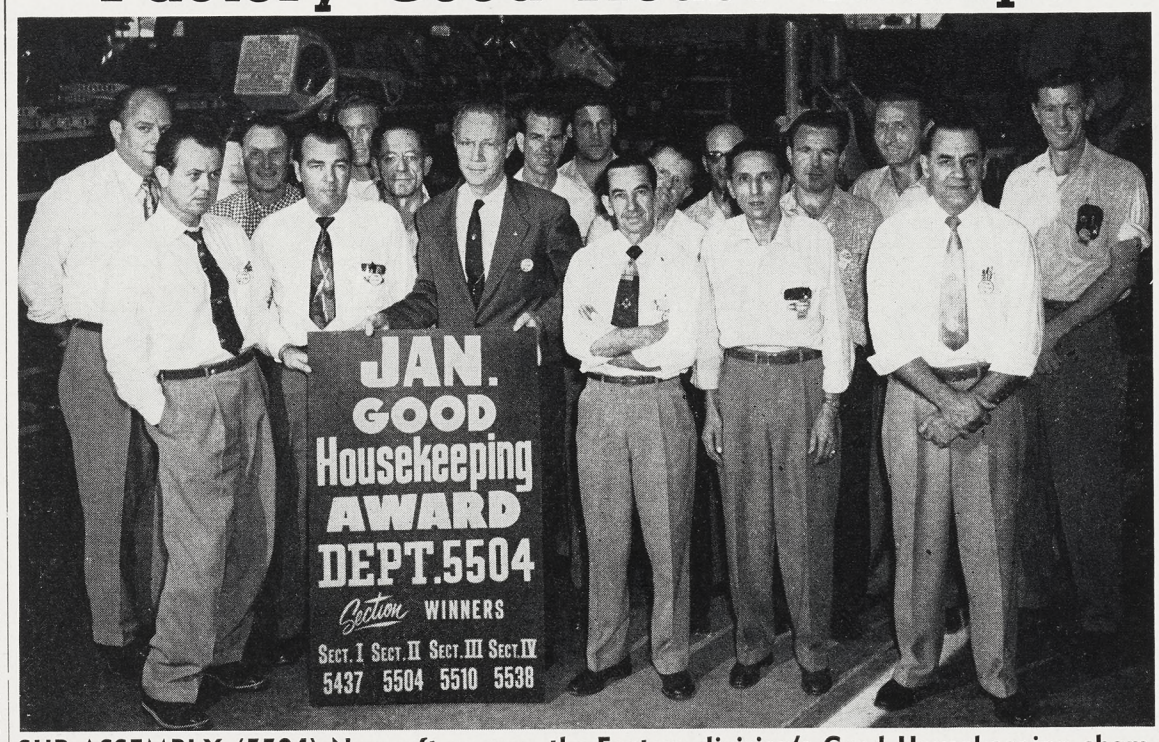
HOUSE, two-bedroom, furnished, no children, $75 or less. GUY C. TROSTLE. Reply in writing to Northrop News, Box 1603. F

APARTMENT or small 1-bedroom house, unfurnished or partly furnished, Hawthorne, Inglewood or beach area, available in April. CHARLENE SPINK, OR. 1-3143. F

ROOM in Palmdale-Lancaster area, on or about April 15. TOM CULBRETH, NE. 20107. F

HOUSE, two-bedroom, garage, in Gardena. Up to $75 per month on lease, have two tots, need fenced backyard, REX H. BURNHAM, ME. 9-1881. F

Factory Good House Champs



SUB-ASSEMBLY (5504) Norcrafters won the Factory division's Good Housekeeping championship in January. The day crew of the department is represented in photo. Front: Sherm Turner, general foreman; Ed Rolf, department head; Gary Hard, program coordinator; Newt Cook, assistant foreman; Paul Gibilisco, leadman; and Max Drapeau, assistant foreman. Rear: Roy Prueter, assistant superintendent, Production Sub-Assembly; and Leadmen W. G. Creese, M. W. Rabourn, E.O. Morgan, C. F. Rawlins, C. B. Parks Carlisle, G. M. Harter, F. L. Johnson, G. R. Horner, W.E. Thompson, E. A. Teague. Sectional winners are indicated on poster — Departments 5538, 5510, 5437, plus 5504.

NIGHT SHIFT contributors to Good Housekeeping championship for Sub-Assembly. Front: W. N. Lewis, G. L. Houser, C. D. Paddock, Leo Paulsen, and R. E. Tindall (all leadmen); Len Haueter, assistant superintendent, Production Sub-Assembly. Standing: R. F. Ader, leadman; Waldron Ickes, assistant foreman; Clifford Hilton, leadman; Gary Hard; Jack Gifford, shift head; Barney Taylor, assistant foreman; Leadmen E. R. McGowan, C. L. Black, C. A. Emerson; Ed Mensak, assistant general foreman; and J. Q. Swiney, leadman. Department 5520 won previous month's race; February winner is being selected.

DUCAT RATES FOR FREDDIE MARTIN

Freddie Martin and his orchestra will provide the music for Northrop Night at the Hollywood Palladium on March 13.

Special half-price tickets are now available at all PA&S offices and from PA&S representatives. Regular price is $1.40 — Norcrafters may purchase tickets for 70c, including tax.

CHILD CARE OFFERED

CHILD CARE—Day or night at our home, $10 per week for two children, more than two $15 per week. DAVE CLARK. Reply in writing to Northrop News, Box 1613. G

CHILD CARE in my home, 2 years or over, TV and lots of play equipment, experienced care, fenced yard. CATHERINE MURPHY, PL. 5-0641. G

CHILD CARE, Sunrise day nursery, licensed child care, ages 2 to 10 years, days and night, large fenced play yard, playroom in house, television, naps, hot lunches, snacks, close to all aircraft plants. For further information call OS. 6-1786 or OS. 6-6566. G

LOST

RING, man's gold ring with square setting, lost 3-2-54, in parking lot of Plant One, reward. DONALD J. ZOLNAY, PL. 3-3533. I

LOST, 7 sheet cakes were purchased from Warren's Bakery on December 24 for a Christmas party at Northrop. This represents $35 worth of cake. It is requested that the 7 steel pans holding the cakes be returned to the bakery as they cost $6 each. I

GOING MY WAY

(Continued from Page 5)

RIDES WANTED

3:45 p.m. — 12:15 a.m.

(Zone 5)
ATLANTIC & SOUTH, Long Beach. JAMES L. HALL (5534-405, Ext. 2244), L.B. 24053. 6-5

PARAMOUNT & COMPTON BLVD., Paramount. ARTHUR ORSEN SCHERMERHORN (5445-287, Ext. 1926), ME. 3-3090. (6-5)

(Zone 12)
LINCOLN & VENICE or Washington. (Interested in car pool. Prefer women riders), Venice. NELLIE SENA (5534-232, Ext. 2244), EX. 6-8401. (6-12)

(Zone 13)
MANCHESTER & FREEMAN, Inglewood. GILBERT MIMA (5806-472, Ext. 533), OR. 8-9721. 6-13

(Zone 14)
HOLLYWOOD & LA BREA, Hollywood (28), La Brea to Hawthorne to Broadway. HOWARD J. GENSLER (7210-256, Ext. 508), HO. 3-7137. 6-14

LA BREA & SANTA MONICA, Hollywood. HARRY BERNARD (5520-216, Ext. 1233), HO. 4-7197. (6-14)

4:45 p.m. — 1:15 a.m.

(Zone 1)
VERMONT OR WESTERN & 8TH, Los Angeles (5). WALTER F. SWEENEY (5508-283, Ext. 2230), DU. 7-0773. 8-1

(Zone 2)
YORK BLVD. & FIGUEROA, Los Angeles. C. S. MILLER (5503-882, Ext. 2681). 8-2

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Zone 3)
MISSION ST. & SOUTH PALM AVE. or Valley Blvd., Alhambra. F. P. STRANGE (5621-269, Ext. 2208-2133), AT. 4-7636. 8-3

(Zone 4)
DOWNEY AVE. AND GARDENDALE, Downey. Interested in car pool. ED BATES (5232-237, Ext. 2040). 8-4

(Zone 5)
HARVEY WAY & HACKETT ST., Lakewood. Interested in car pool. ISIDORE LEVINE (5524-266, Ext. 2209), L.B. 396958. 8-5

ATLANTIC & AGNES ST. (Interested in car pool), Compton. MAC. R. BROWN (5503-445, Ext. 2681), NE. 8-1508. (8-5)

(Zone 8)
CRENSHAW & COMPTON, Gardena. GARY W. MOORE (5970-224, Ext. 2161). (8-8)

(Zone 12)
WASHINGTON & PACIFIC, Venice. BEATRICE MORRIS (5507-611, Ext. 526). 8-12

(Zone 13)
VENTURA & LINDLEY, Reseda. WALLY ROBINSON (5920-115, Ext. 2612), DIckens 3-9863. (8-13)

Miscellaneous (Split Shifts)

(Zone 6)
COMPTON & WESTERN or Normandie. Hours: 4:15 to 12:45), Gardena. NORVELLA ARNDT (4240-212, Ext. 771), ME. 4-1900. (10-6)

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information in activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening, 7:00 to 10:00.

BALLROOM DANCING
Second series of lessons every other Saturday, NRC Clubhouse.

BASKETBALL CLUB (day)
Larry Baird, acting commissioner
Interdepartmental League play Monday and Thursday, 7:45 to 10:00. Leuzinger. First Annual NRC Basketball Tournament at Leuzinger High School —beginning on March 22.

BASKETBALL CLUB (night)
Available practice sessions at Rosecrans Playground, 149th and Vermont, Gardena—Monday and Tuesday mornings, 10:00 to 12:00.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily—Plant 1, Plaster Shop tent, 11:00 a.m.; Plant II, second floor, center conference rm., 12:30 p.m.; Plant III, conference room 5, 12:15.

BOAT CLUB
Elmer Chiodo, commissioner
Next meeting Monday, April 5th, 7:30 p.m., NRC Clubhouse.

BOWLING CLUB (day)
Chuck Carson, commissioner
Annual Spring Tournament, Hawthorne Bowl, Sunday, April 25, and May 2. Special meeting NRC Clubhouse on Wednesday evening, March 17, 7:30.

BOWLING CLUB (night)
Tony Cardoza, commissioner

BRIDGE CLUB
Walt Darby, acting commissioner
Meet 2nd & 4th Tuesday each month. Next meeting March 23, NRC Clubhouse.

CAMERA CLUB (day)
George Fuller, acting commissioner
Meet every other Friday, NRC Clubhouse Annex. Next meeting March 19, 7:30 p.m.

CAMERA CLUB (night)
Adam Slusarz, commissioner
Meet every other Saturday evening. NRC Clubhouse. Next meeting March 20, 7:30 p.m.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GEM AND MINERAL CLUB
Art Westermann, acting commissioner
Meet fourth Wednesday of each month at the NRC Clubhouse. First meeting, March 24, 7:30 p.m.

GOLF CLUB (day)
Jim Milne, commissioner
Twilight leagues now being formed. First league competition to coincide with beginning of daylight saving.

GUN CLUB
Dick Booth, commissioner
Meet every other Tuesday, 7:30 p.m., NRC Clubhouse. Next meet March 16.

MIXED CHORUS
Meet every Wednesday evening, NRC Clubhouse, Fountain Room, 7:30 p.m.

PHILATELIC CLUB
George Borton, commissioner
Philatelic and Numismatic combined club meets 2nd and 4th Monday each month. Next meeting March 22, NRC Clubhouse, 7:30 p.m.

PLAYERS GROUP
Beginning March 17 meet every Wednesday evening, at the NRC Clubhouse Annex at 7:30 p.m.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun., March 21, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, March 18.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot March 20. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKI CLUB
Ken Waters, acting commissioner
Meet every Wednesday evening 7:30 p.m., at NRC Clubhouse.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be March 15, NRC Clubhouse Board Room.

SPORT CAR
Bruce Vernier, commissioner
Meet second Thursday each month, NRC Clubhouse. Next meeting March 11.

SQUARE DANCING
Dave Dyer, commissioner
Meet at Swimms Barn, 15016 Daphne St., Gardena, from 7:00 to 10:00 p.m. Meet 1st, 2nd, 4th & 5th Sundays. Pot luck dinner at 5:00 p.m., Sunday, March 14, before Square Dancing.

SURF FISHING
Ted Griswold, acting commissioner
Meet NRC Clubhouse, 7:30 p.m. 1st Tuesday of month. Next meeting April 6.

TOASTMASTERS 212 (day)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS 1398 (night)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon, Western Club. 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Orval Coley, commissioner
Meet last Tuesday of month. Next meeting March 30, NRC Clubhouse.

Spring Keg League Set For April

Entry blanks will be available on March 15 at PA&S offices, Plants 1 and 3, for the NRC Spring Bowling Tournament and the summer bowling leagues.

Schedule for summer league play at the various alleys is as follows: Morningside Alley—Men's Scratch Trio starts Tuesday, April 20; Mixed Four Handicap starts Wednesday, April 21. Royal Bowl — Mixed Four 625 Scratch starts Wednesday, April 14; Mixed Four Handicap starts Thursday, April 29. Windsor Bowl—Mixed Four Handicap starts Thursday, April 22.

Women's Scratch Trio and Mixed Four Handicap start Tuesday May 4, at Hawthorne Bowl.

Chuck Carson, bowling commissioner, announces that NRC officials will be on hand at the next NRC Bowling meeting to be held Wednesday, March 17, at 7:30 p.m. in the NRC Clubhouse to answer questions on NRC bowling policy.

EASTER SEASON FLOWER TIPS AT NRC CLUB MEET

Easter will be the theme for a special meeting of the NRC Flower Club to be held on March 16 at 7:30 p.m. in the NRC Clubhouse.

In keeping with this holiday season, a demonstration of flower arrangements and corsage making will be given by Jack Israel of View Park Florists. Following the demonstration the flowers will be raffled off to the audience. Club Commissioner Mary Nelson has announced an accelerated club program for the future which will include such renowned gardening experts as Kenneth Terry, who will speak at the April meeting on the care of camellias and azaleas.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Dorothy Hodgson, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BASKETBALL
Betty Talley, acting commissioner
League now in progress at Ardmore Playground Tuesday evening, 7:30 p.m.

BOWLING
Florence Rice, commissioner
Ladies Handicap League in progress at Torrance Bowl, Tues., 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner

FLOWER CLUB
Mary Nelson, commissioner
Meet second Tuesday of each month, NRC Clubhouse, 7:30 p.m.

GOLF CLUB
New series of golf lessons starting soon. Watch bulletin boards.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse.

SOFTBALL
Season starting soon. Watch bulletin board for announcement.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Tuesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP (MARINERS)
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Peggy Barber, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 to 6:30 p.m. Baby sitting provided if necessary.

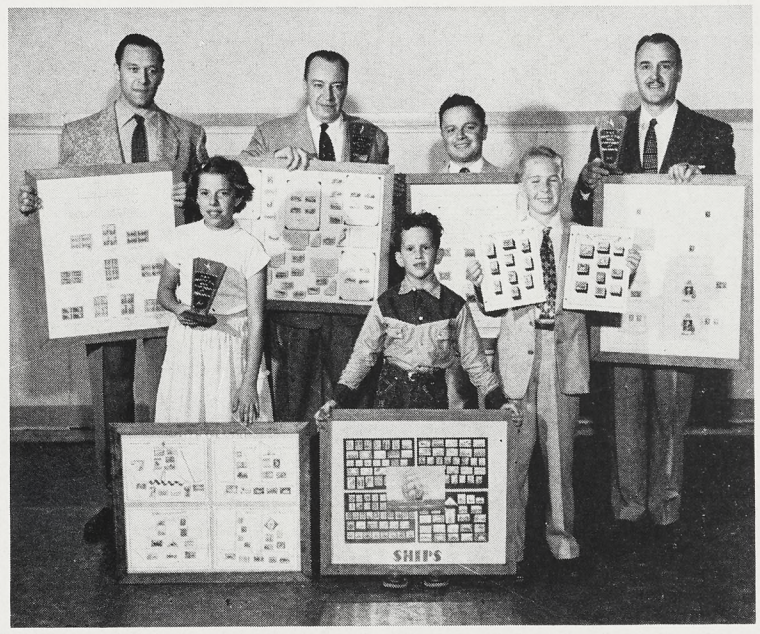
First NRC Invitational Hoop Tourney Slated

Letters of invitation have been extended from Northrop Hawthorne, Anaheim, and Ontario facilities to Hughes, North American, AiResearch, Douglas, and Lockheed to participate in the first Annual Northrop Invitational Basketball Tournament.

The tournament, scheduled for March 22 through April 9, will be held in the Leuzinger High School gymnasium on Monday, Tuesday, and Friday nights starting at 7:00 each night. The games will be played on a single elimination basis with two games scheduled each night. NRC individual and team trophies will be awarded tournament winners and runners-up.

Northrop - Hawthorne will be represented by the winners of the Scorpion and Snark leagues. To date, leader of the Scorpion league is Department 5501, with an undefeated record, while Snark league play is wide open with Departments 5503, 3250, and 3350 vying for top spot.

STAMP FOLK partake—Fifty-four Philatelists and families gathered on February 5 to witness the first annual NRC Stamp Show at NRC Clubhouse. Winners of show received plaques from NRC. Judges were: William Kies, Philatelists Club comish—Anaheim; Jerry Ruysser, Electro-Mechanical Design; Jerry Divin, Tooling Inspection.



STAMP SHOW winners are, back row, left: Topical Group—William Heckinger, Electro-Mechanical Design—second; George Borton, club comish—first. Miscellaneous Group—Edward Veevaert, Electro-Mechanical Design—second; Brad Richardson, Power Plant—first. Front row: Junior Division—Caroline Kinet, daughter of Gaston Kinet, Advanced Production Planning—first; Charles Gertner, son of Arlene Gertner, Contract Administration—second. Visitor's prize donated by D. L. Pervis, Electro-Mechanical Design, went to Bruce Prime, right, guest. Next meeting—March 22.

Dance Skill Nets Prize For Couple

By Joe Cribbs
President
Northrop Recreation Club

Nobody changed partners last February 20 when the NRC ballroom dance class had its combination dance-contest, party, and registration night for new members. Everyone was very busy vying for points from dance contest judges Madelyne and John Cristelli, "Mr. & Mrs. Palladium". It was your prexy's pleasure to award the Sweepstakes prize for best all-around dancers to Betty Harsey, Missile Flight Test, and D. T. "Mac" McRuer, Servomechanisms. First, second, and third prizes included trophies from NRC; one year, six month, and three month passes to the Palladium; and ten, five, and three private dance lessons at the Bill Williams Dance Studio. Three contests were held — foxtrot, tango, and free style. The winners of these competitions entered the big sweepstakes contest. Aaron Gonzales and his Beverly Hills Hotel orchestra provided the music. Best news of all is that everyone can go another round because new classes have started and registrations are still open.

★ ★ ★

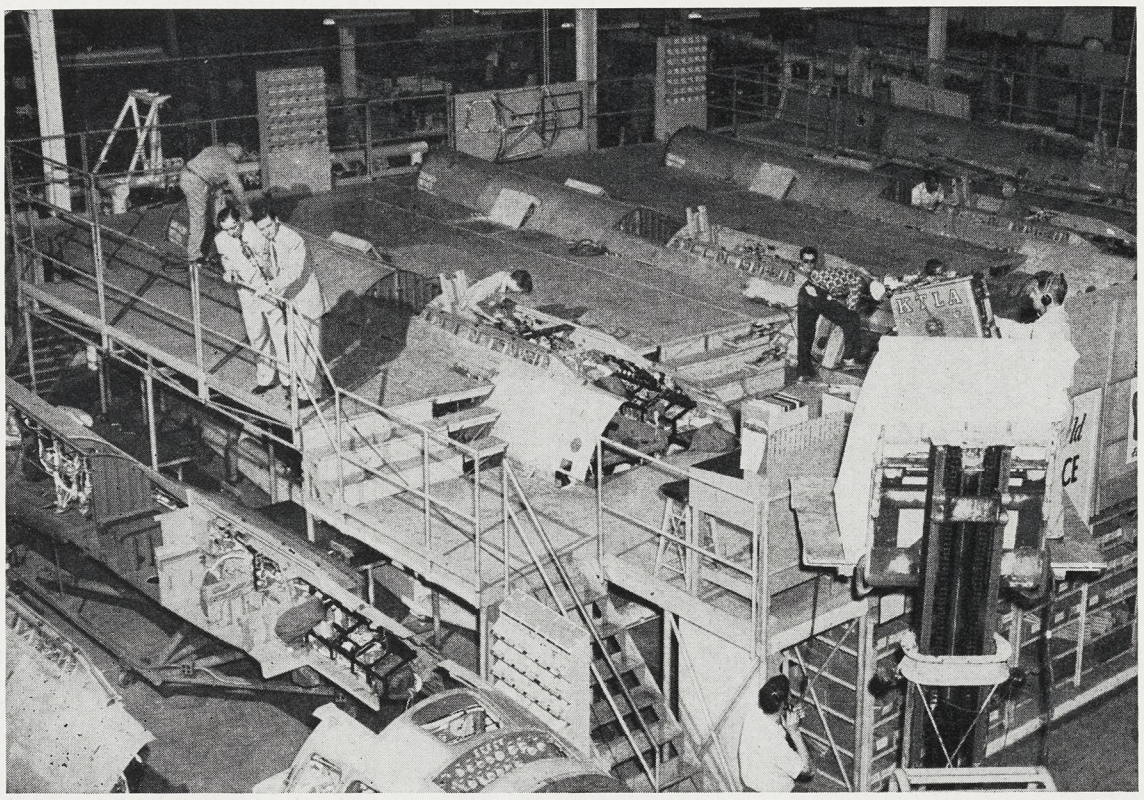
With the ancient sport of weight-lifting gaining new popularity in this country, it is interesting to note that two Northrop stalwarts (Edward Heckinger and Lee Winograd) will be featured in the forthcoming California Weight-Lifting Championships to be held in the Embassy Auditorium in April. Ed Heckinger, Experimental Design, is a former National Championship 2nd Place title holder and top man in his field. Lee Winograd, Fluid Dynamics—although a self-styled newcomer to the sport—placed among the top ten in the recent Southern California weight-lifting trials and may well be a potential champion, also. Luckily, the boys will not be competing against each other. Lee is in the middle heavyweight class (lifting about 270 pounds) and Ed has attained a heavyweight classification (330 pound lift)—!!!

★ ★ ★

Hobbyists, attention! The Sixth Annual California Hobby Show will be presented at the Shrine Exposition Hall — March 19 through 28. If you have an unusual hobby to exhibit you may show it to thousands by displaying it in the show. Entrants may register free—write the Hobby Show Office, 3433 South Hill Street, Los Angeles 7, or telephone PRospect 6126, extension 7. PA&S also has discount tickets for 65c, tax included — regular price is $1.00.

THE Northrop Scene BY DAY AND NIGHT

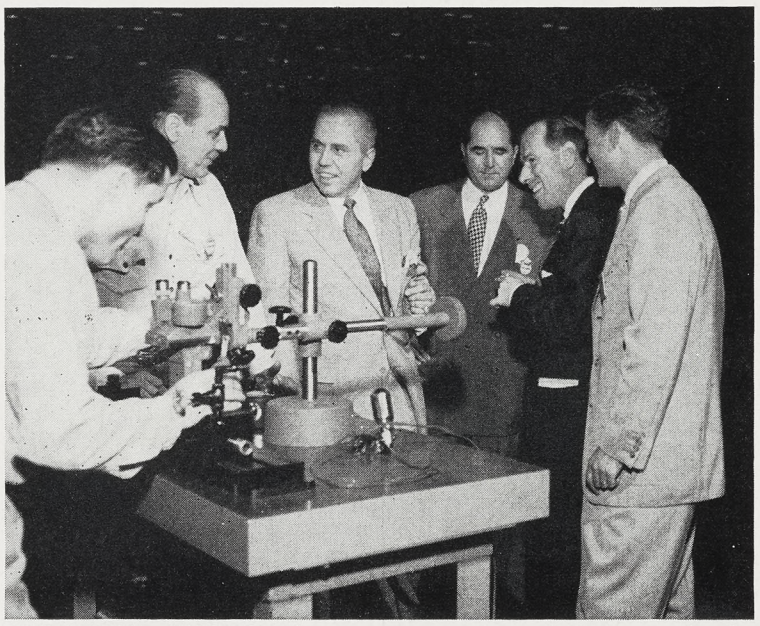
City of Northrop at Night



"CITY AT NIGHT" cameraman, perched high in fork-lift, trains on Announcer Ken Graue and John Breneman, assistant factory manager, nights, as TV Station KTLA took its audience on tour of Northrop—Thursday, February 25. While this scene of sew-up was being shown, floor-level camera was moving to advantageous position to catch Graue and Breneman as they moved down final line toward east end of final assembly building.

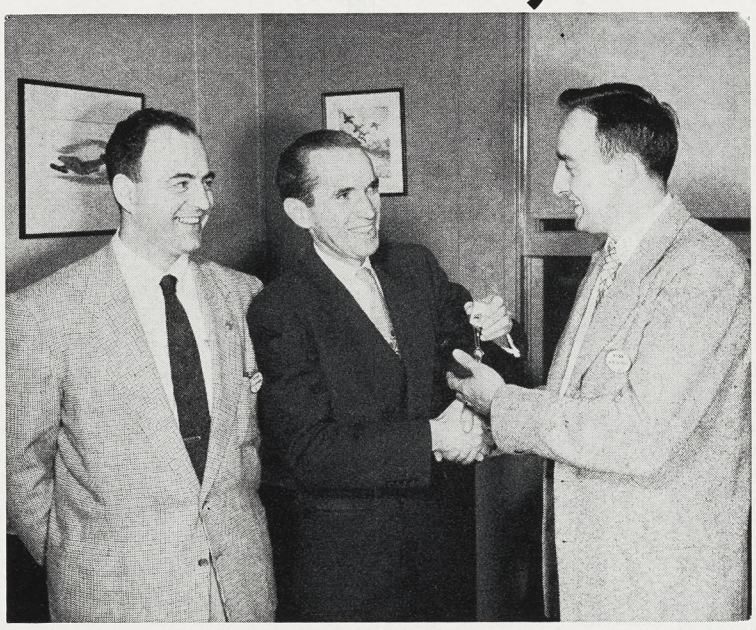
VICE-PRESIDENT John R. Alison, right, presents Announcer Ken Graue with Scorpion model as souvenir of "City at Night" visit to home of F-89. Scene—shot near end of tour —was viewed by thousands of Norcrafters on their television sets at home. Previous visit of Graue and the show to Northrop was in April, three years ago . . . at Crenshaw.

Buy U.S. Savings Bonds Payroll Deduction Way

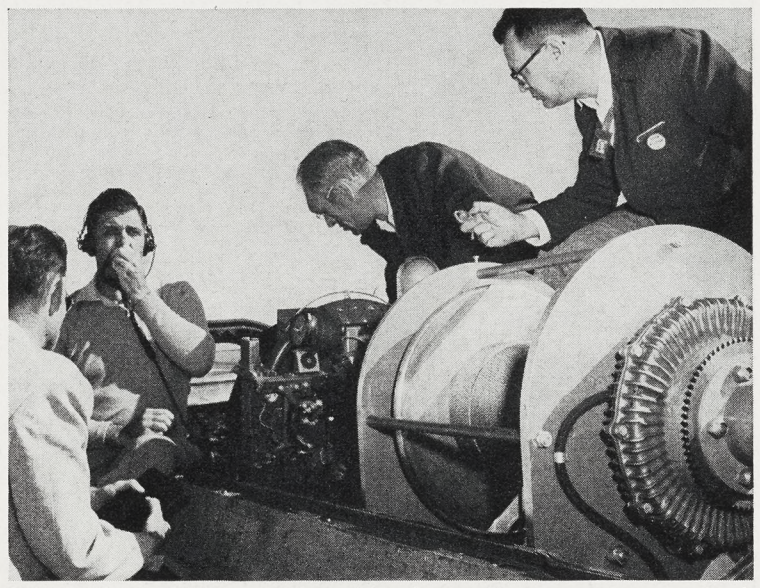


PRE-SHOW PHOTO shows preparations being made by Tooling Norcrafters Paul Mansfield and Joe Chidester, left, on intricate small drill set-up. Center is Al Cline, director of Public Relations, flanked by Kenneth P. Bowen, vice-president, Manufacturing; Klaus Landsberg, vice-president and general manager, KTLA, and Announcer Ken Graue.

Best Wishes Keynote

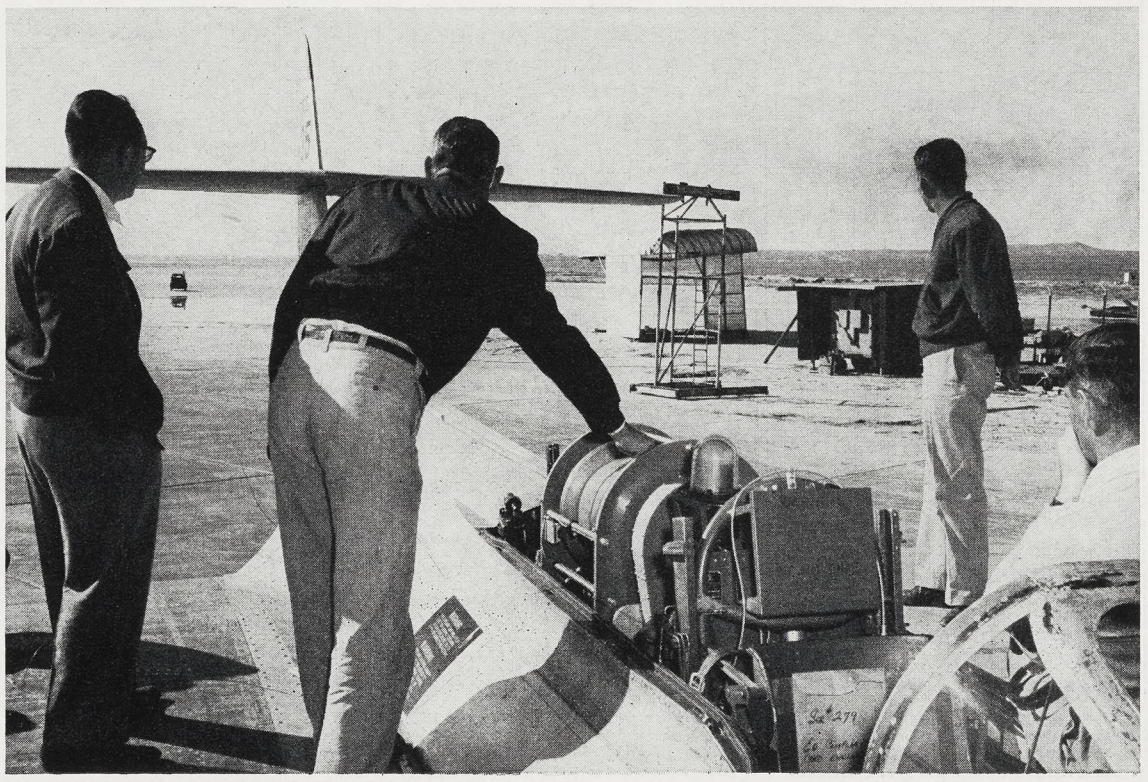


KEY TO SUCCESS in a new business venture is presented to Roger Russell on his resignation from Engineering Personnel post recently. Roger McGuire, center, Industrial Relations manager, Engineering, presents symbol of a successful future as an expression of good will from Russell's many friends at Northrop. Bob Ehinger, Engineering Personnel manager, left. Russell will open stationery, supply business.



CHECKING OUT another Northrop first, a target winch allowing F-89 to tow targets faster than targets were ever flown before, are: From left—Bill Juno, AiResearch; Jim Bellitt, Wright-Patterson AFB; Bill Higbee, Experimental Flight instrument engineer; Dave SeLegue, supervisor instrumentation, Experimental Flight Test department.

GROUND TESTING of new target towing winch is accomplished as truck runs cable across Rogers Dry Lake. From left are: Dave SeLegue, supervisor instrumentation, Experimental Flight; Bill Higbee, instrument engineer, Experimental Flight; Hardy Jones, assistant foreman, Flight Service.



Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, March 24, 1954

RED CROSS TIME

(See Page 2)

RED CROSS FUND APPEAL

Common Sense

BY DR. JOHN R. LECHNER, M.A., LL.D.

(Fourth of a series of four articles)

To counteract communism at home American people must understand and appreciate the remarkable form of government under which we live. To understand our philosophy of government we must first recognize the vital role of our Constitution in the social, economic and political life of our people.

In order to appreciate the epoch-making achievement of the 55 men who wrote the Constitution of the United States, it is necessary to recall their unshakable distrust of unbridled power.

KINGS—MOBS

The very organization of the Constitutional Convention bore out distrust of both kings and mobs. The delegates to the Convention were carefully chosen for their ability, their devotion to the cause of freedom, their understanding of history, and they, themselves, enjoyed only the powers actually delegated to them by their respective legislatures. It has often been declared by historians that no era in human history ever produced so many great men for a given task as those who were so dedicated to the cause of freedom at the Philadelphia convention in 1787. America can never forget Washington, Madison, Franklin, Hamilton, Randolph, and the others who met at Philadelphia in that eventful summer of 1787!

Thus, a monumental project was begun to fashion an instrument of government which has stood for 166 years as an impregnable bulwark against the encroachment of personal liberties by either an individual, a bureaucracy, or by the majority of the people themselves. It has provided a security so great that only the individual has the power to surrender his own freedom under our Constitution.

BILL OF RIGHTS

The Constitutional Convention lasted four months, ending on September 17, 1787. Congress shortly thereafter agreed that a Bill of Rights be added thereto IN WRITING, enunciating the inherent rights of the individual under the absolute guarantee of the Constitution itself. This amazing instrument of government was lauded some years later by one of the world's greatest legal minds, Gladstone, when he appraised the Constitution as "the most wonderful work ever struck off at a given time by the brain and purpose of man."

The Constitution of the United States established three branches of government—the legislative, executive and judicial—in a system of checks and balances to prevent the usurpation of power by one branch, especially the executive. The Constitution is the supreme law of the land, and it is the function of the Supreme Court to make that law inviolate. We have, therefore, government by law, not by men, whose whims or ambitions could enslave the American people.

Chiseled deep in the granite above the entrance to the Supreme Court Building in Washington, D.C., is this significant and basic philosophy of our governments: "EQUAL JUSTICE UNDER LAW." So long as this principle remains inviolate, Americans will remain free.

The first ten amendments to the Constitution—called the Bill of Rights—were adopted in 1789 and proclaimed in force on December 15, 1791. They had already been discussed by the delegates to the Constitutional Convention as a candidate for final ratification, and needed only proper study and enunciation. These amendments became the Magna Charta of America, and remain today as the most positive, dynamic guarantee of individual freedom in the world.

FOR FREEDOM

Americans might well ponder carefully over the specific provisions for freedom, and thank God over and over for the wisdom and courage of our founding fathers. The first Amendment guarantees freedom of religion, freedom of speech, press and assembly. Under the other amendments, the American people are protected against unwarrantable search and seizure, secret trials, excessive bail, and are guaranteed life, liberty and property under due processes of law. We have a right to bear arms in our own defense, and are safeguarded from infringement of our homes by armed forces. All powers not specifically delegated to the federal government are reserved for the states and the people, making this, in truth, government of the people, by the people, and for the people.

Our answer to Communism in America is for the American people to recognize our own great heritage of freedom and to rededicate themselves to the preservation of the American way of life.

Common Sense concludes a series of four articles on communism written by Dr. John R. Lechner.

The complete work, entitled "Communism — What It Is", is intended by Dr. Lechner for distribution to colleges and churches in America as a text on the conflict between communism and Americanism.

The News articles are condensed versions of the original. A limited number of copies are available at the News Office, station 2456.

FIRE HOUSE—!

Cover photo, taken by Paul Wheeler of Northrop Photo Lab, shows two Northrop-Ontario "space men"—test pilot Rod Close, left, and radar man Ken Hackney (formerly Captain Hackney of the USAF)—discussing details of the F-89D giant rocket pods. With pod on each wing tip, the Scorpion is the most heavily armed fighter aircraft in America.

Rod and Ken, togged out in new T-1 high altitude pressure suits, are ready for take-off.

Increasingly higher altitude capabilities of the F-89D Scorpion have caused the company's Flight department to provide these Air Force T-1 high altitude pressure suits for flight crews.

Scorpion fire power—? One hundred and four rockets.

Altitude—? Above 45,000 feet.

Ontario M-C Greets Veep At Sycamore

Marking the end of one effective year and the beginning of another for Ontario Flight Facility Management Club, members and guests will dine and install new officers next Saturday night, March 27.

Meeting at Sycamore Inn, the '53 slate of officers will turn over gavel and their good record to the following recently elected '54 team:

Lou Casale, vice-president
Bob Salisbury, secretary-treasurer.
Jerry Hutter, publicity chairman.

Club officials (officers) through the past year have been Bob Snider, vice-president; Joe Wilson, secretary-treasurer; and, now up for another round, Jerry Hutter, publicity.

On hand from Hawthorne to assist the gavel passing will be Management Club past prexy Charles Bradford.

Aside from the camaraderie of dining and new officer installation, Ontario Management Clubmen at presstime were arranging a raffle for special speaker program.

NRC CHORISTERS TO FORM — SING EASTER MORNING

Norcrafters interested in singing and in brightening the days of those less fortunate are being sought by the NRC Mixed Chorus, which will present an Easter morning program for the patients at the Wadsworth Hospital in Sawtelle.

Applications are still being accepted for membership in this activity — major qualification requirements are an enthusiasm for singing and sight reading ability.

Rehearsals are now in progress for the Easter program, with the club meeting each Wednesday at 7:30 p.m. in the NRC Clubhouse.

NORCRAFTERS REVIEW DEDUCTIONS FOR COMBINED CHARITIES

March and April, traditional time of year for Red Cross drives in industry, are being marked throughout the Northrop facilities by Norcrafters as time to review and re-establish contributions to this worthy cause for the coming year.

This year the slogan is "On Guard For You—Give". The national fund-raising campaign goal is set at $85,000,000 and Los Angeles' share is set at $3,009,150.

At Northrop, Red Cross — as well as Red Feather — is supported via the Norcrafter Combined Charities plan by payroll deduction, wherein contribution may be arranged in any amount per week (10 cents or multiples thereof).

Norcrafters who are at present enrolled in the Combined Charities payroll deduction plan will soon receive Red Cross lapel buttons and window stickers from their department clerks.

At the same time, personnel who already give, and who wish to increase their contributions to help meet the year's higher appeal goal, may sign new forms indicating their desire to increase deductions for Red Cross.

Norcrafters not already participating may contribute to the Red Cross by contacting their department clerks for payroll deduction forms.

Upon completion, forms are forwarded to the Payroll department, where weekly deductions for a stated period will be made.

Payroll deduction donations made in this manner are credited to the area in which the donor lives.

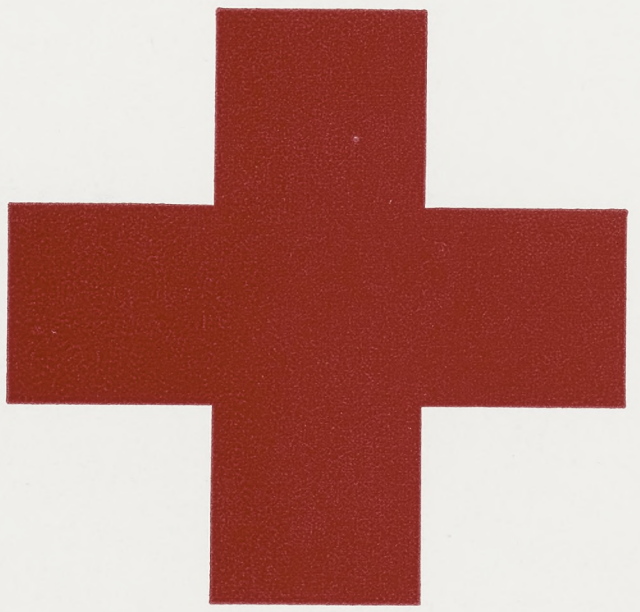
Norcrafter contribution dollars given to the Red Cross through the payroll deduction plan are used to:

Aid disaster victims — as a weekly average more than 485 families suffering injuries or losses through disaster were given Red Cross rehabilitation and emergency aid.

Help servicemen and women — one among every ten servicemen was given Red Cross help at a camp or hospital each month!

Give blood for the victims of accidents and disease — one out of two hospitals received blood donated through Red Cross for treatment of ill or injured servicemen, veterans, and civilians. Also, one out of every two blood donations procured by Red Cross was provided for defense use.

One person out of every six in the United States received some kind of Red Cross assistance or training, thanks to individual contributions during 1953.



"ON GUARD FOR YOU"—. The 1954 Red Cross fund-raising campaign is being conducted during March and April, and it once again is time for Norcrafters to review their Combined Charities contributions. Payroll deductions are made in any amount (multiples of 10 cents) upon request to department clerks. Dollars make Red Cross service possible wherever and whenever it is needed. (See story.)

Northrop News

Vol. 12 Northrop Field, Hawthorne, Calif. No. 17

Published every other Wednesday by
INDUSTRIAL RELATIONS DIVISION, NORTHROP AIRCRAFT, INC.
JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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Northrop Teamwork Story

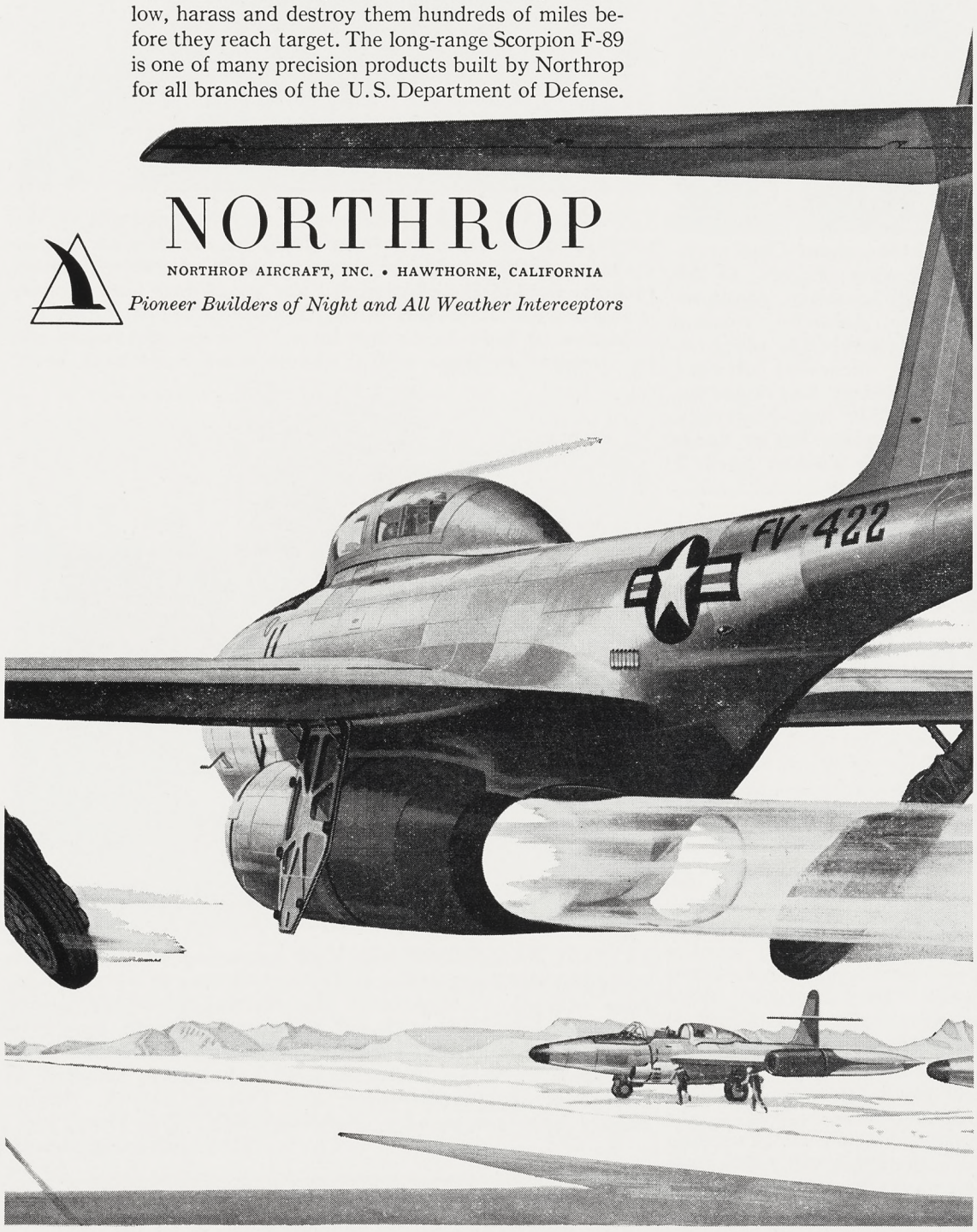
Double Barreled

Two power-packed jet engines, *two* "decks" of 52 rockets, *two* men at controls and triggers, up to *two thousand* miles of range... and the comforting assurance of single-engine performance if necessary; that's the Northrop Scorpion F-89. These U. S. Air Force interceptors now stand ready for double-duty defense at far-away bases; they can rise in seconds on first radar alert to intercept air invaders, and they can follow, harass and destroy them hundreds of miles before they reach target. The long-range Scorpion F-89 is one of many precision products built by Northrop for all branches of the U. S. Department of Defense.

NORTHROP

NORTHROP AIRCRAFT, INC. • HAWTHORNE, CALIFORNIA

Pioneer Builders of Night and All Weather Interceptors



This ad is one of a series prepared by Northrop Public Relations Division for publication in: Aero Digest, Aviation Week, American Aviation, Air Force, and Northrop News.

Details on State Income Tax Revealed--Due April

Because of an anticipated increase of 500,000 more State income tax returns than last year, it is important that persons requiring assistance in preparing returns contact Income Tax Division offices at the earliest possible date, according to Robert C. Kirkwood, chairman of the State Franchise Tax Board.

State income tax returns are due April 15, 1954.

Norcrafters are advised that returns are required for 1953 from all single persons whose net income was $2000 or more, and all married couples whose combined net income was $3500 or more. Individuals who qualify as the head of a household must file if their net income was $2000 or more.

Franchise Tax Board, Income Tax Division, temporary offices were established early in March in various communities throughout Los Angeles County for the convenience of taxpayers needing assistance.

Office nearest the Hawthorne plant will be located in the Inglewood City Hall. Anaheim Norcrafters will be served at the Anaheim Chamber of Commerce, and the Pomona City Hall is closest to the Ontario facility.

State income tax forms are on order and will be available soon at Personnel Activities and Services offices at the Hawthorne plants.

NRC Golf Club Cards Coming Up

Membership cards for NRC Golf Club will soon be available to those who qualify for participation in the Twilight League play to be held at Western Avenue Golf Course, according to Jim Milne, commissioner (days).

Qualification requirements consist of submittal of six current scores, which may be played on any regulation course. Score cards are to be complete, signed, dated, and witnessed.

These cards become the basis for determining handicap for league play, and must be submitted prior to formation of Twilight leagues.

Competition is scheduled to start sometime during the last week in April to coincide with the effective date for Daylight Saving Time.

Down . . . . . Range

Booming Ontario, busily engaged in major assembly and production flight operations, at presstime counted 1495 Norcrafters on the team . . . with figure mounting even higher as of now, to new record total for that facility . . . 1535 persons.

"Welcome to the Valley" was the theme of a party given for all Palmdale Norcrafters by Edwards Base Northrop folk Saturday evening, March 20 . . . 300 persons dined and danced at the Valley Room near Roosevelt till early hours.

Frank B. Bolte, chief, Engineering Research, and Ralph B. Davidson, assistant chief, Structures, have been appointed to sub-committees of the National Advisory Committee for Aeronautics on aircraft structural material and aircraft loads.

Jack E. White, Tool Engineering, Plant 2, will contest for office on the City Council of Torrance in the up-coming election April 13.

Nation's C-D Head Visits Local Area

Federal Civil Defense Administrator Val Peterson will visit the Los Angeles area next month during the observance of Civil Defense and Disaster Week, according to Jerry Baker, Northrop Civil Defense coordinator.

Highlight of the week will be Peterson's first major address in Southern California, "The Four Horsemen of Disaster", on Wednesday, April 7, at the Biltmore Bowl. Speech arrangements are being handled by the women's division of the Los Angeles Chamber of Commerce.

Northrop Civil Defense Executive Committee members will attend the meeting to learn the latest developments in the nationwide C-D effort.

Peterson is scheduled to tour various Civil Defense facilities in Region Nine. His visit coincides with Civil Defense and Disaster Week, which has been proclaimed by Los Angeles Mayor Norris Poulson for the period April 4-10.

WINNERS OF CC PRINT CONTEST SHOW TOP WORK

The annual NRC Camera Club print competition held recently brought out some excellent examples of photographic art, according to Commissioner George Fuller.

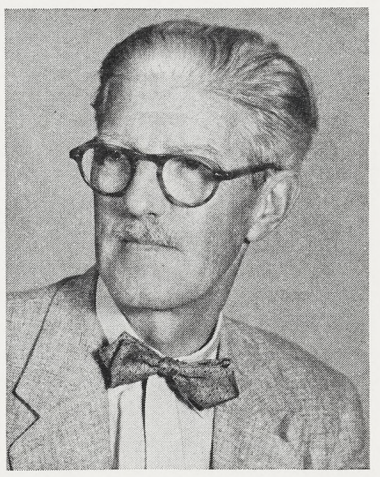
Outstanding winner of show was Stan Hunter, F-89 Fuselage Assembly, who took one first place and two second place awards.

Competition winners were as follows:

Black and White division: first — Roy Stratton, Missile Guidance; second — Stan Hunter; third — Sam LaLande, Flight Controls; fourth — George Nickle, Process Paint and Upholstery; fifth — Commissioner Fuller, Engineering Laboratory Services.

Color Division: both first and second place — Stan Hunter; third — Johnny Ray, Missile Guidance; fourth — Harvey Heaverlo, Experimental Flight Test; fifth — Paul Streib, Missile Guidance.

First place winners were presented with trophies donated by the Graflex Company, and NRC presented ribbons to all second through fifth place winners.



FRANK BOLTE

Stymied by the stork was former Patrick AFB Norcrafter Dave Deering, who moved and expected delivery of furniture within two weeks . . . at last word was still waiting—furniture van driver with wife expecting new arrival was stork stymied.

Exhibit for House Armed Services Appropriations Committee — Northrop News, February 10 issue, with its story on the development of steel flap track extrusions by Northrop and Harvey Machine Works . . . exhibitor: — Colonel William J. Adams, chief of Industrial Services, AMC . . .

RALPH DAVIDSON

Stranger than fiction—two years ago first baby born to Ontario Norcrafters when that facility opened was recorded by Assistant Foreman E. N. Clipperton and wife Marge — first baby born to Palmdale Norcrafters when that facility started March 1, was—you guessed it—the Clippertons again; little Janice Laura Clipperton (6 pounds, 12 ounces) arrived about the time dad was briefing his crew on how to put first Palmdale Scorpion together (see Northrop News, March 10, 1954).

Invest In Your Future

Buy Savings Bonds

M-C Gavel Changes Hands

PASSING THE GAVEL, symbol of leadership, engages out-going Management Club president, Charles Bradford, and new president Jack Akin, center. Outgoing officers, at left seated: Connie Cordil, secretary; Bud Burns, night vice president; Bill Schramm, sergeant-at-arms. Standing, left: Ralph Hopkins, education; Bart Maloney, publicity; Howard Altman, facilities; Don Graves, treasurer; Scotty Smith, vice president-'53, program-'54; John Strater, membership; Jim Scott, finance-'53 and '54. Incoming officers, seated, right: Lloyd Johnson, night vice-president; Jim Dickey, secretary; Ray Gardner, treasurer. Standing right: Cy Perkins, program-'53, vice-president-'54; Ken Pembroke, Anaheim vice-president; Robbie Robinson, sergeant-at-arms. For complete list of Board of Control members see story below, which also lists highlights of club dinner April 2.

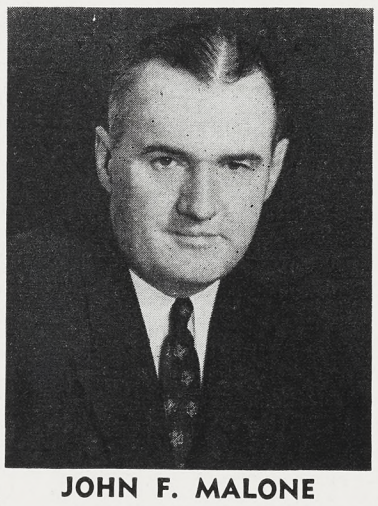
FBI Head to Feature M-C April Meet at Old Dixie

Highlight of the first dinner meeting under newly elected Management Club president Jack Akin will be a talk by John F. Malone, Los Angeles Federal Bureau of Investigation head, entitled "Activities of the FBI", according to Jim Thomson, Publicity chairman.

The meeting, to be held on April 2 at the Old Dixie Barbecue, 43rd and Western Avenue, will also feature official surrender of the president's gavel by Charles Bradford, out-going prexy, and a question and answer period by John R. Alison, administrative vice-president.

Malone, a native of Carbondale, Pennsylvania, has been with the FBI since 1942, serving in offices in Buffalo, New York; New York City; Cleveland, Ohio; San Diego; Louisville; and Chicago prior to his Los Angeles appointment. He will discuss history and jurisdiction of the FBI and some of the interesting cases handled.

Meanwhile, new board of control member lists have been filled. Including elected members they are: Jack Akin, Industrial and Plant Engineering, president; Cy Perkins, Materiel, vice-president; Lloyd Johnson, Fab Control, night vice-president; Jim Dickey, Production Planning, secretary; Ray Gardner, Engineering, treasurer; Robbie Robinson, Quality Control, sergeant-at-arms.



JOHN F. MALONE

Chairmen of various committees are: Scotty Smith, Materiel, programs; Jim Thomson, Engineering, publicity; Elise Williams, Northrop Hospital, tickets; Phil Smalley, Management Control, membership; Jim Scott, Material Conservation, finance; Milt Dodson, Industrial Training, education; Orv Sharnborg, Finance, facilities.

Publish New Edition Of "Working With Northrop"

An attractive new edition of the manual "Working With Northrop" is now available, replacing the familiar orange-colored booklet given to new Norcrafters until now.

The small volume is an entirely new presentation of the Personnel Manual, and has been brought up to date to conform to new government and company policies.

The booklet is more specific and has clearly stated additional information on many subjects.

Wages and hours data; additional job information on progress and performance reviews; an explanation of payroll and pay check deductions; and many other discussions are included.

Of particular interest is a timetable of Northrop past triumphs and firsts in the design field; and a handy map of all Hawthorne facilities. (See Northrop News, April 23, 1952.)

Clever cartoons enliven the publication, which was coordinated by Jim Tuthill, manager, Labor Relations, with various concerned departments.

Art work was performed by Art Stevens, Customer Relations.

Test Sled Fastest In World

The world's fastest land passenger vehicle, built by Northrop, will be ridden by United States Air Force volunteers in the near future, according to advice received from Holloman Air Development Center, Alamagordo, New Mexico.

Experiments using the 750-mile-per-hour sled will be conducted on a 3500-foot railroad track. Initial tests using dummies were run at comparatively slower speeds, but supersonic speed ranges are the ultimate goal of the Northrop-designed track.

Volunteers who ride the device will travel far faster than man has ever before moved on the ground, and they will be strapped in a chair that will rotate them head over heels 180 times per minute (three times per second)!

This exposes the subject to the same air blast forces experienced by pilots ejected suddenly from a supersonic airplane.

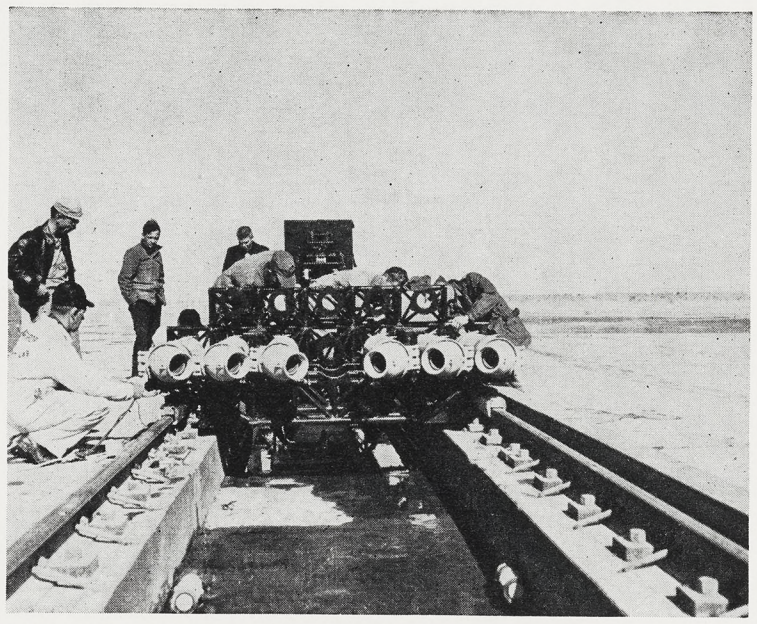
Experiments will provide a reliable method of testing advanced survival and protective equipment for crews of supersonic military airplanes.

Still to be determined are thresholds of reasoning, consciousness, and memory for crew members ejected at speeds faster than sound.

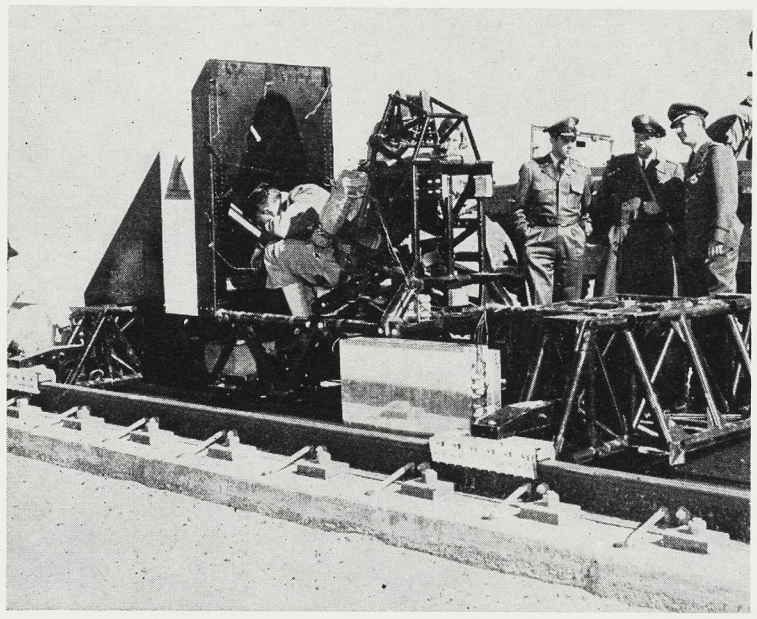
Seven hundred and fifty mile-per-hour speeds are provided by twelve 4500-pound-thrust rockets. This speed at the 4092-foot altitude of the Holloman base gives the equivalent of a bail-out from an open seat at 40,000 feet while traveling 1800 miles per hour!

Test vehicle will withstand up to 100 Gs with a fifty per cent safety factor—400 times greater stopping power than the brakes of an automobile can supply. Braking system consists of a water trough five feet wide and 18 inches deep extending the full length of the track. Metal scoops lowered into the water provide the braking action.

Fastest Land Vehicle



RELIABLE TESTING of advanced survival methods is the purpose of the above Northrop-designed rocket sled. Device develops 4500 pounds of thrust in each of twelve booster rockets. Rocket installation for low speed test with dummy is shown with six rockets in use. Supersonic speed ranges are objective of tests to be run later. Human passengers will be strapped in chair which rotates them head over heels.



FASTEST PASSENGER VEHICLE operating on land is discussed by Air Force officials during test runs at Alamagordo, New Mexico. Pictured with the Northrop-designed device are, from left, Colonel Don R. Ostrander, commanding officer of Holloman Air Development Center; Lieutenant Colonel John P. Stapp, Aero Medical Laboratory, scientist in charge of sled experiments; and Colonel Otto R. Haney, deputy base commander, Holloman ADC. (See story, left.) (U.S. Air Force photos)

Major Victory - - - !

UNANIMOUS CHOICE of judges for first place Toastmistress spot in March 11 area contest was Louise McCulloch, Timekeeping, right. (See Northrop News issue of February 24, 1954.) Presenting pin to Louise is Florence Strehlow, International Toastmistress Club director. Trials, held at Alondra Park Country Club, mark the second step for Louise in the climb toward national Toastmistress honors, and chalk up one more major victory for newly-formed NRC TM clubs.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 1)

VERMONT & 3RD, Los Angeles. Route: Vermont & 3rd by way of Crenshaw, West Blvd. and Prairie. ROBERT BAUER (5338-19, Ext. 1265 or 2611), DU. 6-9963. 12-1

WESTERN & SANTA MONICA BLVD., Hollywood. Travel Western, Van Ness & Crenshaw Blvd. W. J. FORBELL (5234-17, Ext. 1981), HO 5-9121. 12-1

(Zone 2)

MANCHESTER & WESTERN or Normandie, Los Angeles (47). Normandie to Imperial. PAULINE H. HART (5241-13, Ext. 1755-1798), PL. 2-3052. 12-2

MANCHESTER AND NORMANDIE, Los Angeles. RON WEESNER (5806-22, Ext. 533), TW. 1368. 12-2

NORMANDIE & FLORENCE. (Via Crenshaw or Western), Los Angeles. PAUL A. CLARKE (5586-44, Ext. 1973), PL. 3-9822. (12-2)

(Zone 4)

FLORENCE & ORR & DAY, Norwalk. M. KRAVETS (5502-43, Ext. 2741), TO. 4-5554. 12-4

(Zone 5)

BELLFLOWER & SPRING, Long Beach. AL HERMON (5222-328, Ext. 1919), L.B. 39-8667. 12-5

NORWALK & ROSECRANS. (Interested in entering or forming car pool), Norwalk. BERNICE ALERIDGE (5586-170, Ext. 1973). TOrrey 3-5636. 12-5

(Zone 8)

CRENSHAW & HWY. 101, Torrance. J. LYNCH (5163-38, Ext. 1821), Davenport 6-5251. 12-8

(Zone 10)

HWY. 101 & 2ND ST., Hermosa Beach. Will pick up on Hermosa Ave. & Pier Ave. LEON MORGAN (5524-123, Ext. 2634), FR. 9-2249. 12-10

AVIATION & MANHATTAN BEACH BLVD. or Hawthorne Blvd., Manhattan Beach. MARY HURD (5507-99, Ext. 526-564). 12-10

AVIATION & MANHATTAN BEACH BLVD., Manhattan Beach. GEORGE TIMAR (5222-345, Ext. 1919). 12-10

MANHATTAN BEACH BLVD. & 22ND ST., Hermosa Beach. JAMES SIMS (5544-171, Ext. 2645), FR. 4-9082. 12-10

(Zone 12)

LINCOLN BLVD. & VENICE BLVD., Venice. Interested in car pool. FLOYD R. KINNEY (5509-104, Ext. 2075), EXbrook 9-6340. 12-12

MAIN & BROOKS, Venice. RAY KIEFT (5538-38, Ext. 525). 12-12

(Zone 13)

VENICE BLVD. & OVERLAND AVE., Los Angeles. CLARENCE KOCHER (5504-178, Ext. 1424), VE. 9-3958. 12-13

(Zone 14)

VANOWEN AND LANKERSHIM, North Hollywood. Interested in car pool. CLARENCE OSEN (5621-154, Ext. 2133), SU. 3-3371. 12-14

CENTINELA & HYDE PARK BLVD., Inglewood. Via Prairie or Hawthorne Blvd. B. C. MAY (5503-125, Ext. 2467), OR. 2-4964. 12-14

CHASE & WOODMAN, (Laurel Canyon, Lankershim Blvd., Hollywood Freeway, Highland, LaBrea, Imperial, Crenshaw), Pacoima. WALTER SIRKS (7310-109, Ext. 2068), EMpire 2-6224. 12-14

7:30 a.m. — 4:15 p.m.

(Zone 1)

VERMONT & OAKWOOD, Los Angeles. EILENE LOTT (8320-56, Ext. 2011), NO. 2-9482. (13-1)

(Zone 2)

BROADWAY & VENICE BLVD. (Venice Blvd., Lincoln Blvd., Imperial Blvd., to Prairie), Los Angeles. HOWARD P. MARSH (5960-49, Ext. 2631). (13-)2

(Zone 4)

FIRESTONE & LA PALMA, Anaheim. TED WITSIL (3410-93, Ext. 1348). (13-4)

STATE ST. & LIBERTY BLVD., South Gate. BILL MEEKER (6000-25, Ext. 738), LOgan 5-3332. (13-4)

(Zone 5)

AVALON & OLIVE, Gardena. (Route: west to Figueroa, Vermont, or Normandy; then north to El Segundo). C. H. FOURNIER (3410-111, Ext. 1816), MEnlo 4-8787. (13-5)

RIDES OFFERED

7:30 a.m. — 4:15 p.m.

(Zone 8)

COMPTON & CRENSHAW BLVDS., Gardena. R. A. MAGIN (3530-147, Ext. 1348) ME. 9-3760. 13-8

(Zone 10)

ELENA AVE. & PACIFIC COAST HWY. (Palos Verdes Blvd., Elena, Pacific Coast Hwy., Hawthorne Blvd.), Redondo Beach. KENNETH J. HARTMAN (5112-33, Ext. 1475). 13-10

(Zone 12)

BUNDY AND MONTANA. (Ride or car pool), Brentwood. JOAN CLARK (5150-24, Ext. 2325), AR. 3-9433. 13-12

(Zone 14)

STOCKER & LEIMERT. (Would like riders on Crenshaw Blvd. or nearby streets), Los Angeles. BARBARA BENZ (5126-54, Ext. 2369). (13-14)

7:30 a.m. — 5:15 p.m.

(Zone 1)

SANTA BARBARA & 4TH AVE., Los Angeles (8). Route: 8th Ave., Crenshaw, Prairie to Broadway. T. R. ODELL (3242-3230-578, Ext. 1570), AX. 2-1065. 14-1

ROSEMONT & MONTROSE AVE. (Route: Verdugo Road, San Fernando Road, Arroyo Seco Parkway, Harbor Freeway, Flower Street, Imperial), Montrose. JOHN H. MORECROFT (3230-592, Ext. 503 or 553), CHurchill 9-6418. (14-1)

3:45 p.m. — 12:15 a.m.

(Zone 2)

FIGUEROA & 60TH, Los Angeles. Interested in car pool. VIRGIL W. GOTT (5411-278, Ext. 2186). 16-2

ROSEMEAD & HWY. 66, Duarte. Interested in car pool. ROBERT J. LA CHANCE (5501-411, Ext. 2200). 16-2

(Zone 6)

WILLOW & AMERICAN, Long Beach. Interested in car pool. KENNETH H. LUNSFORD (5510-257, Ext. 2255), L.B. 7-5225. 16-6

SANTA FE & SPRING, Long Beach. Can take four (4). NOLEN C. CORHN (5515-292, Ext. 1825), Long Beach 4-7981. 16-6

(Zone 14)

BURBANK & VAN NUYS BLVD., Van Nuys. Interested in car pool. GENE NIXON (5520-289, Ext. 2646), ST. 0-8008. 16-14

4:45 p.m. — 1:15 a.m.

(Zone 1)

LEXINGTON & BRAND AVE., Glendale. CHESTER C. BEMIS (7520-232, Ext. 1301), CI. 3-8257. 18-1

HOLLYWOOD BLVD. & VERMONT, Los Angeles 27. ANDRE R. DORLET (5586-657, Ext. 1973), NO. 3-8680. 18-1

(Zone 2)

SUNSET BLVD. & ECHO PARK AVE. (Alvarado to Western), Los Angeles 26. ROBERT LEE WALSER (5509-264, Ext. 2075). 18-2

(Zone 3)

VERNON & LIMA, Los Angeles. H. TROUP (5586-298, Ext. 1973), AD. 3-2960. 18-3

(Zone 4)

DOWNEY AVE. & GARDENDALE, Downey. ED BATES (5232-237, Ext. 2040). (18-4)

(Zone 9)

PACIFIC COAST HWY. & ELENA, Redondo Beach. DIANA WILSON (5588-611, Ext. 1529). (18-9)

(Zone 10)

ROSECRANS & INGLEWOOD or Hawthorne, Lawndale. BILL NEWMAN (5587-619, Ext. 1973), OS. 6-4841. (18-10)

(Zone 12)

CENTURY BLVD. & BUFORD, Inglewood. MARIANNE F. GREEN (5507-294, Ext. 256), OR. 8-4489. 12-12

12:15 a.m. — 7:00 a.m.

(Zone 13)

CHASE ST. & VAN NUYS BLVD. or Woodman, Pacoima. Route: Van Nuys Blvd., Beverly Glen, Santa Monica, Overland, Centinela, Prairie. Interested in car pool. M. FIGOFF (5587-961, Ext. 1947).

Miscellaneous (Split Shifts)

(Zone 2)

NORTH FIGUEROA in Highland Park. (Hours: 4:15 to 12:45). ROBERT K. HOY (6325-227, Ext. 1611), ALbany 9445. (20-2)

Rides Wanted

7:00 a.m. — 3:45 p.m.

(Zone 1)

ALVARADO & 7TH ST., Los Angeles. ED BREWSTER (5584-724, Ext. 1382), DU. 9-3062. 2-1

BUDLONG & SANTA BARBARA, Los Angeles. C. A. DAVIDSON (5520-62, Ext. 1233), AX. 3-0644. (2-1)

PICO & ALVARADO or Hoover, Los Angeles. LEWIS INGRAHAM (5501-123, Ext. 2200), DU. 3-5679. (2-1)

COLORADO & CENTRAL, Glendale. MAJORS WALDEN (7310-94, Ext. 2227), CI. 2-4081. (2-1)

(Zone 2)

WESTERN & 77TH, Los Angeles. ADOLPH E. LAMM (5353-113, Ext. 1953), PL. 3-9056. 2-2

VERNON & CENTRAL, Los Angeles. FRANK CHAMBERLIN, Jr. (5544-258, Ext. 2645), AD. 4-2664. 2-2

(Zone 3)

COMPTON AND FLORENCE AVE., Los Angeles. A. T. GRANADO (5588-26, Ext. 2744), JE. 6491. 2-3

NORMANDIE & 107TH or Vermont & 107th, Los Angeles. DOROTHY WALLS (5352-94, Ext. 2382), PL. 6-3770. (2-3)

(Zone 4)

FLORENCE & ORR & DAY, Norwalk. M. KRAVETS (5502-43, Ext. 2741), TO. 4-5554. 2-4

STUDEBAKER & FIRESTONE or Rosecrans, Norwalk, VIRGIL F. PAPPAS (5517-82, Ext. 527). 2-4

IMPERIAL HWY. & CLARK AVE., Downey. LUIGI AMATISTO (5588-106, Ext. 2167), TOpaz 9-3062. 2-4

(Zone 5)

BELLFLOWER & SPRING, Long Beach. AL HERMON (5222-328, Ext. 1919), L.B. 39-8667. 2-5

NORWALK & ROSECRANS. (Interested in entering or forming car pool), Norwalk. BERNICE ALERIDGE (5586-170, Ext. 1973). TOrrey 3-5636. 2-5

(Zone 6)

AVALON & VICTORIA, Gardena. DAVID B. COAD (5544-80, Ext. 2645). 2-6

SORRENTO & 2ND ST. (Will meet anywhere in the vicinity of East Long Beach), Long Beach. DOROTHY JACKSON (5532-98, Ext. 1457), L.B. 908682.

(Zone 9)

INGLEWOOD AVE. & 184TH, Redondo Beach. HAZEL E. FOLTS (5507-330, Ext. 526-564). 2-9

REDONDO BEACH BLVD. & PRAIRIE, Torrance. F. M. PEARMAN (5241-323, Ext. 1897), ME. 9-3006. 2-9

(Zone 10)

BAYVIEW DR. & 5TH ST., Manhattan Beach. VIRGINIA HURST (5524-98, Ext. 2209), FR. 4-2434. 2-10

INGLEWOOD AVE. & ROBINSON, Redondo Beach. CLAUDE LUCAS (5508-62, Ext. 1463). 2-10

(Zone 12)

CENTURY BLVD. AND SEPULVEDA, Westchester. PHYLLIS CHASSEY (5507-62, Ext. 526), OR. 7-2217. 2-12

LINCOLN BLVD. & VENICE BLVD., Venice. Interested in car pool. FLOYD R. KINNEY (5509-104, Ext. 2075), EXbrook 9-6340. 2-12

ROSE AVE. AND MAIN, Venice. WILLIAM R. WHITE (5586-102, Ext. 1973).

FREEMAN & CENTURY, Los Angeles. ELEANOR ARRASMITH (4230-30, Ext. 631), OR. 7-4255. 2-12

(Zone 13)

LA BREA AND CENTINELA BLVD., Inglewood. BUNNY SCHNEIDER (5354-62, Ext. 467-468), ORchard 1-3696. 2-13

(Zone 14)

VANOWEN AND LANKERSHIM, North Hollywood. Interested in car pool. CLARENCE OSEN (5621-154, Ext. 2133), SU. 3-3371. 2-14

WEST BLVD. & 66TH ST., Inglewood. MARY H. RAWLEY (5507-321, Ext. 526), OReqon 8-8609. 2-14

CHASE & WOODMAN, (Laurel Canyon, Lankershim Blvd., Hollywood Freeway, Highland, LaBrea, Imperial, Crenshaw), Pacoima. WALTER SIRKS (7310-109, Ext. 2068), EMpire 2-6224. 2-14

7:30 a.m. — 4:15 p.m.

(Zone 1)

WILSHIRE AND ALVARADO, Los Angeles. C. C. MAKRIS (5910-15, Ext. 2660), DU. 9-4955. 3-1

VERMONT & OAKWOOD, Los Angeles. EILENE LOTT (8320-56, Ext. 2011), NO. 2-9482. 3-1

(Zone 2)

BROADWAY & VENICE BLVD. (Venice Blvd., Lincoln Blvd., Imperial Blvd., to Prairie), Los Angeles. HOWARD P. MARSH (5960-49, Ext. 2631). 3-2

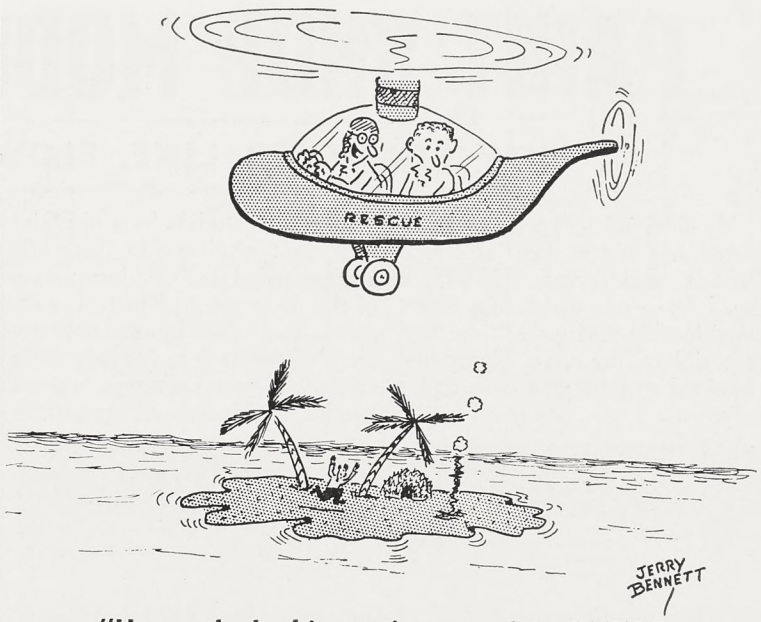
(Zone 4)

FIRESTONE & LA PALMA, Anaheim. TED WITSIL (3410-93, Ext. 1348). 3-4

STATE ST. & LIBERTY BLVD., South Gate. BILL MEEKER (6000-25, Ext. 738), LOgan 5-3332. 3-4

(Zone 5)

SPRING ST. & STUDEBAKER, Long Beach. SHIRLEY THOMPSON (5338-11, Ext. 1771). (3-5)



"Happy deal—his putting an ad in GMW."

RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 6)

HALLDALE AVE. AND ROSECRANS, Gardena. Between Compton and Rosecrans. SHIRLEY SNUFFIN (1441-73, Ext. 1493), ME. 4-2222. 3-6

(Zone 7)

AVALON & 231ST, Wilmington. G. FAYE BUTLER (9350-27, Ext. 474). 3-7

(Zone 8)

CRENSHAW & 154TH, Gardena. MARY L. WICKHAM (4100-23, Ext. 2331), ME. 4-7690. 3-8

COMPTON & CRENSHAW BLVDS., Gardena. R. A. MAGIN (3530-147, Ext. 134), ME. 9-3760. 3-8

(Zone 9)

CALLE-MAYOR & PACIFIC COAST HWY., Torrance. LUCY DENNY (1441-59, Ext. 2728). (3-9)

HAWTHORNE BLVD. & 182ND St., Torrance. Would like to join car pool. GORDON CAMBRIDGE (3146-50, Ext. 1780), FR. 9-2127. 3-9

(Zone 10)

HERMOSA AVE. & 26TH ST., Hermosa Beach. MRS. AUDREY CHURCHILL (8620-118, Ext. 2011), FRontier 4-1647. 3-10

CURTIS & INGLEWOOD AVE. (Curtis Ave. is opposite 169th St.), No. Redondo. FLORENCE L. RADER (5160-33, Ext. 548-549). 3-10

ELENA AVE. & PACIFIC COAST HWY. (Palos Verdes Blvd., Elena, Pacific Coast Hwy., Hawthorne Blvd.), Redondo Beach. KENNETH J. HARTMAN (5112-33, Ext. 1475). 3-10

RAMONA & 141ST ST., Hawthorne. LU ELMO THOMPSON (5930-39, Ext. 2488), OS. 5-5029. 3-10

CERISE & ROSECRANS, Hawthorne. CHARLOTTE BRANSCUM (1441-50, Ext. 1438). (3-10)

(Zone 12)

LA TIJERA & WILEY POST, Los Angeles 45. ELEANOR FARRELL (6110-102, Ext. 1745), ORchard 7-4886. 3-12

RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 12)

LENNOX & ANZA (or Inglewood), Lennox. CAROL WANDERER (1810-816, Ext. 2024). 3-12

BUNDY AND MONTANA. (Ride or car pool), Brentwood. JOAN CLARK (5150-24, Ext. 2325), AR. 39433. 3-12

(Zone 13)

LA TIJERA & CENTINELA or Freeman, Los Angeles (45). NANCY WALLACE (5050-11, Ext. 658). 3-13

SHERMAN WAY & LOUISE, Northridge. M. A. EMERY (4300-42, Ext. 2436), DI. 2-5086. 3-13

MANCHESTER AND EUCALYPTUS or La Brea, Inglewood. MARJORIE ANHALT (4420-103, Ext. 2738), OR. 2-7991. 3-13

CEDAR & MANCHESTER, Inglewood. BARBARA COTTER (1441-82, Ext. 691), OR. 7-2365. 3-13

3:45 p.m. — 12:15 a.m.

(Zone 2)

FIGUEROA & 60TH, Los Angeles. Interested in car pool. VIRGIL W. GOTT (5411-278, Ext. 2186). 6-2

ROSEMEAD & HWY. 66, Duarte. Interested in car pool. ROBERT J. LA CHANCE (5501-411, Ext. 2200). 6-2

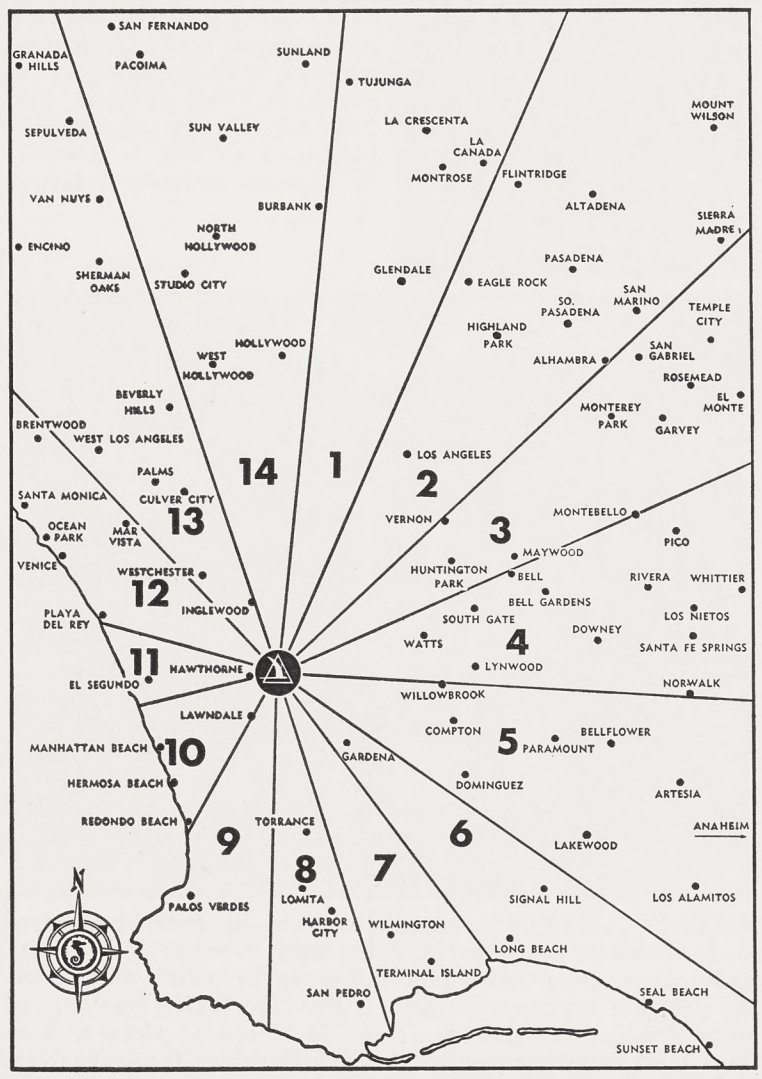
(Zone 5)

BELLFLOWER & DEL AMO BLVD., Long Beach 11. EDWARD E. DUNN (5538-214, Ext. 525). Long Beach 5-7753. 6-5

ROSECRANS AND OLEANDER. (Ride to work only), Compton. GLORIA PETTY (1441-222, Ext. 691), NEwmark 5-6244. 6-5

GILBERT & VALENCIA DRIVE, Fullerton. J. T. HARTER (5437-237, Ext. 2020 or 2224), LAmbert 5-4227. 6-5

(Continued on Page 8)



PAINT SHOP MODERNIZED

NEW CONVEYOR LINE, FLOW-COATER

Modernization recently completed has given the Paint and Process department (5508) a new look — one which may effect considerable savings in time and material as the new, highly-mechanized system gets well under way.

Intensive studies by Industrial and Plant Engineering Norcrafters preceded the modernization of the department, which was accompanied also by an enlargement of the area to provide more efficient, newer processes, and to handle the increased quantities of parts demanded by ever-hungry production lines.

Three conveyor lines, a flow-coater, new tanks for the Iriditing process, and new water-curtain spray booths feature the modernization.

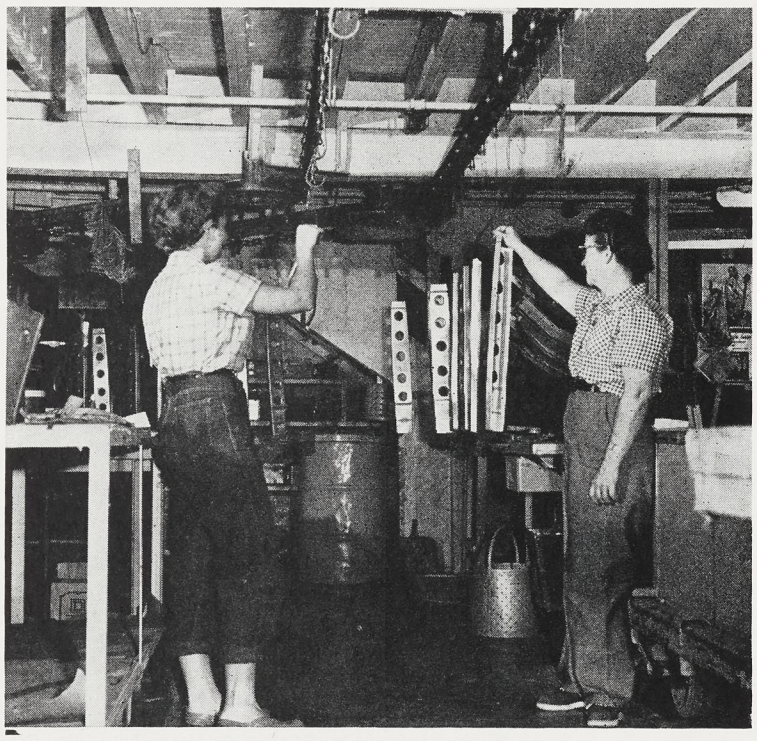
The conveyor lines—a color-spray line 140 feet long; zinc chromate spray line 290 feet long; and the flow-coater line of 320 feet — keep thousands of parts moving through the department's paint section in a steady stream. Order sheets and inspection procedures accompany the flow through the department until Manufacturing Control Norcrafters tag completed parts for delivery to requesting departments.

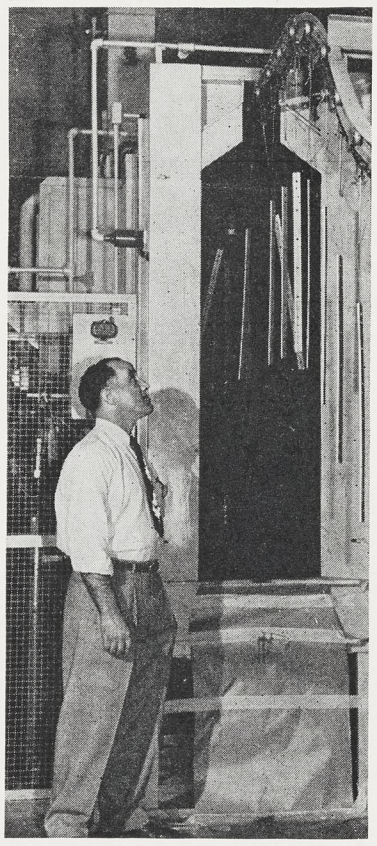
The familiar dull green protective coating of zinc chromate, in addition to being applied by hand-spray at the new booths, is being sprayed automatically in the flow-coater, one of the first such uses of the process in the industry.

The new tanks occupy the space formerly used by Machine Shop inspectors, Machine Shop office and the magnaflux. They are used for Iriditing—one of three principal processes used in the department to prepare parts for painting.

The spray booths (see photo) have been designed with safety and health in mind, Industrial Engineering Norcrafters point out. Painters spray directly toward a rushing curtain of water. which absorbs surplus paint and helps to wash away fumes.

The paint department, containing spray booths and the flow-coater, is completely enclosed in brick, with fire doors which operate automatically. The flow-coater, in fact, has in addition a double CO-2 system: one automatically controlled, and one for manual operation.





HANGING parts on moving conveyor line are Melba Chaney and Rose Slaughter, Paint and Process. This line moves parts through flow-coater just beyond fire door in background for zinc chromate spray. This line is longest of three new conveyor lines: 320 feet. Others lead to color spray line and zinc chromate hand-spray booths.

FLOW-COATER, newly-installed for automatic spraying of familiar green zinc chromate protective coating on Scorpion parts, is looked over by Jim Breneman, department head of Paint and Process. Use of spray cabinet such as this is relatively new in aircraft industry.

WATER - CURTAIN spray booths are another feature of modernization program in Paint and Process. Here Anne Richardson, department Norcrafter, spray paints parts moving past her on conveyor line. Outer line, which has carried parts through flow-coater, is visible at top of picture. Both lines lead from here north through the door for inspection.

SCORPION PILOTS OF TRUAX FIELD WRITE TO NEWS

Interest in Scorpions by the Norcrafters who make them is probably matched only by the men who fly them.

And, it develops, the men who fly the F-89 are interested, too, in the people who make them; they feel close to Norcrafters; and they hope the latter feel interested in them.

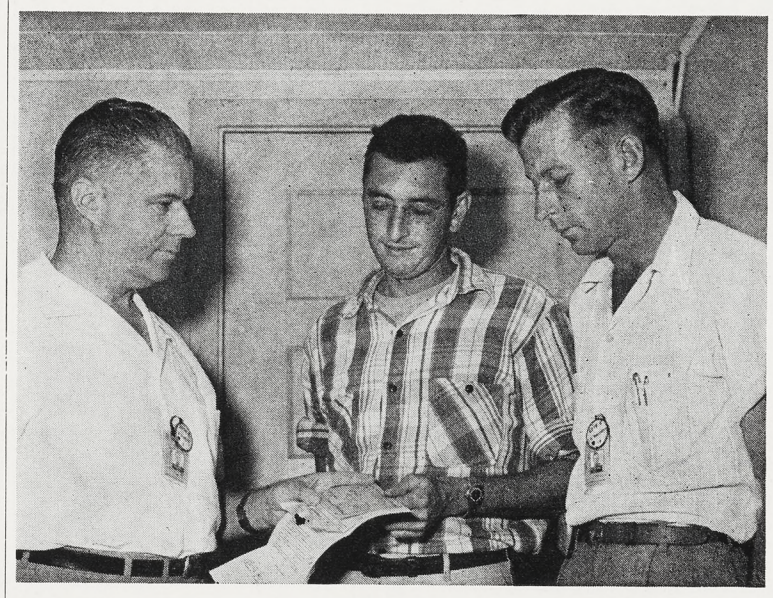
First Lieutenant Thomas Bakke, athletic officer of the 433rd Fighter Interceptor Squadron, Truax Field, Madison, Wisconsin, recently wrote the News:

"We of the 433rd read your Northrop News with interest and have learned considerable concerning the people and the organization behind the F-89; their jobs, hobbies and recreation.

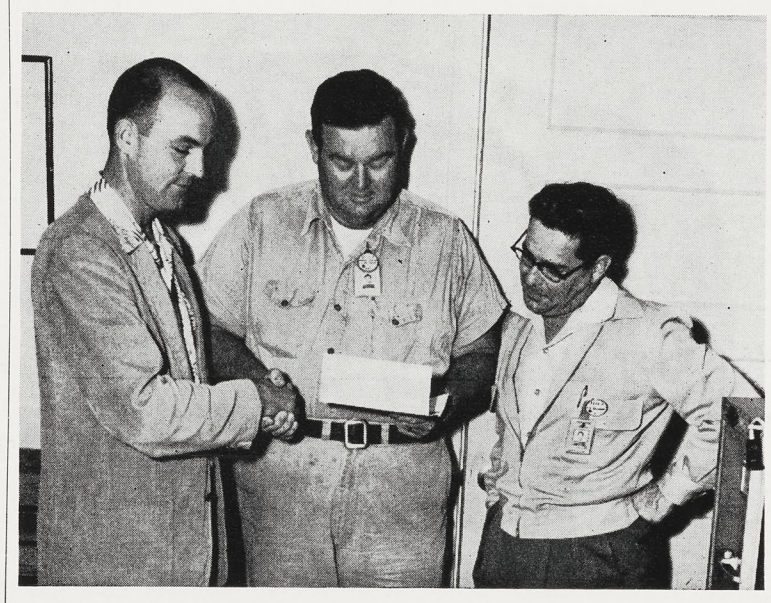
"The paper, along with the company's outstanding tech reps stationed here (Ed. note: Oscar Graffious and Chuck Weaver) have done a great deal to bring about a closeness between the people who build the planes and the men who fly and maintain them. Therefore, we thought you might be interested in some of our off-duty activities."

That's the story behind the picture on page 10.

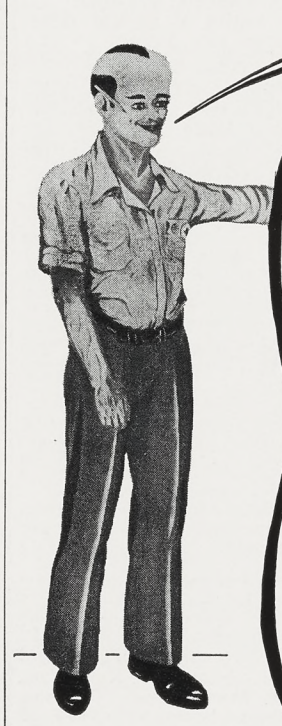
Suggestion Award Payoff To Norcrafters In Florida



CLEVER IDEA wins suggestion award for Dick Warnick, Aircraft Service, Northrop missile test center. Warnick, center, receives check from Verl Smith, chief of Florida base, while Supervisor Tom Montgomery approves. The winning idea was for an electrical accessory used in actuating engines before installation. Similar device has been in use at Hawthorne.



OVERHEAD WIRES and power lines are easily lifted out of the way of Northrop missiles when being transported at Northrop's Florida base, due to a suggestion made by L. A. McCarthy, 5819. McCarthy receives check above from C. A. Kerner, assistant chief of the base, as Jack Cushman, supervisor, Industrial Relations, looks on. Device suggested by McCarthy fits over vertical stabilizer of the missile.



Mat Con says

Your judgment is the most important element in assuring that material reaches its destination safely.

There is no substitute for good common sense when handling, packaging, shipping, or storing material.

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

FRIGIDAIRE, 6 cubic feet, A-1 condition, $60, AL SAIGET, AXminster 39006. A

STUDEBAKER, 1940 Champion, radio and heater, overdrive, good tires, good condition. E. L. KENNEDY, MEnlo 9-4139. A

CHEVROLET, 1928 4-door sedan, 4 cylinder, good tires, needs work, engine suitable for marine conversion, chassis and wheels for trailer, $25. A. C. CONANT, jr., FRontier 5-1017. A

CHEVROLET, 1946 4-door, good condition throughout, very clean inside, $395, HOWARD RICHCREEK, EX. 60447. A

HOUSE, Manhattan Beach, 2-bedrooms, fireplace, beam ceilings throughout, west of Sepulveda, underpriced for quick sale at $9750, full price, F. EMORE, FRontier 2-6167. A

ENGINE, ideal for marine conversion, Ford V-8 sixty and/or transmission, engine is complete with accessories except generator, transmission can be purchased separately, $75 engine and transmission; transmission only $15, G. T. STERLING, OS. 6-3713. A

TV, G-E console, 12½", good condition, $60, MRS. H. LEHOTSKY, OS. 6-3694. A

HOUSETRAILER, 16', $495, little down, $40 month, Pfaff SEWING MACHINE, portable, cost $326, will sell for $200 cash, LLOYD MOREY. Reply in writing to Northrop News, Box 1734. A

BUICK Riviera, 1953, like new, extras, $800 down with approximate monthly payments of $60 through GMAC, $2300, FRED DUMAS. Reply in writing to Northrop News, Box 1735. A

AIRPLANE, late 1950 Luscombe 8F deluxe, 348 hours, flaps, two-way radio, metal prop., stainless mufflers, jump seat, many other extras, very clean, one owner, $2550 or make cash offer; three choice LOTS with oil rights, Huntington Beach, $500 each or as part payment on late Cadillac, E. G. NESS, LExington 6-2987. A

MODEL A pickup, 1930, good condition, $50; BUICK Special, 1937, good condition, radio, good tires, $50; RUSSELL G. McCLENAHEN, OS. 5-2159. A

HEARING AID, Cleartone, just like new, worn but a few times, cost over $200, will sell for $75, MARIE CATALDO, OSborn 5-5942. A

PLYMOUTH, 1950 deluxe 2-door sedan, very good condition, $100 for equity—$500 balance bank financed at $49 per month, ROBERT L. ULLERY, OS. 6-8433. A

FREEZER, 13' Kelvinator, chest type, used only 3 weeks, 6 months old, original price $548, perfect condition, must sell $250 cash, PATRICIA HOSE, OS. 5-4998.

WASHING MACHINE, Easy Spin-drier, good condition, $20 or make offer, MARY SUTHERLAND, OS. 5-3852. A

BUICK, 1947 4-door, quick sale, $250, BOB McDONALD. Reply in writing to Northrop News, Box 1713. A

HUDSON, 1949 club coupe, new tires, new paint, clean, excellent motor, $550, EMMETT SHIELDS, NOrmandie 2-4734. A

HOUSETRAILER, 22', 1954 Terry Rambler, shower and bath, used 2 months, like new, $2090—$250 down, balance like rent. 7% interest. BOBBIE G. FRIEND, DI. 8-4236. A

TRAILER, 14' Crown with trail-a-porch attached, makes into a 6' x 8' room enclosed with awning, has 1954 license plates, perfect condition, only four months old, $695, E. M. THOMAS, PL. 6-4743. A

PARKA, B-9, size 40, extra heavy lined Alaskan type, seal lined hood, quilted, new condition, reasonable price, J. P. WOOTAN, jr., ARizona 7-7068. A

BOOKCASES, 2—mahogany, 5 shelves, $18 each, 2 Huldah PICTURES and frames $4.50 each, BARBARA PENNINGTON. Reply in writing to Northrop News, Box 1715. A

PONTIAC, Catalina 1953, all leather interior, radio, heater, low mileage, white sidewalls, Hydramatic, automatic window washer, perfect condition, original owner, $2795, AUDREY JONES STEELE, OS. 5-3507. A

CLOTHING, ladies gabardine suits, best quality, perfect style, size 12-14, royal blue $5, aqua $3, grey $3, all three for $10, ARizona 7-1539. A

SUN-LAMP and bulb, Sears, Remington 12 gauge SHOTGUN, pump, carrying case, DON RAZOR, FR. 2-9471. A

TWO LOTS in Big Bear, sacrifice, T. EBERHART, AX. 2-4718. A

ELECTRIC WASHER, apt. size, one sheet capacity, price $12, C. T. CHRISTENSEN, MEnlo 4-5086. A

FOR SALE

MERCURY Monterey 1952, original owner, 15,000 local miles, immaculate, see to appreciate, Merc-o-matic, continental kit, whitewall tires, radio, heater, defroster, all leather upholstery, pipes and headers and new brakes. $2100. TERRY KNOTT, AX. 2-6594. A

CHRYSLER sedan, 1941, excellent condition, good tires, $135, PATSY FORTNEY, NEvada 6-4097. A

WASHING MACHINE, Monitor apartment size, 15" x 15" x 30" with wringer which folds inside tub, square stainless steel tub on enameled base, good condition, $20, M. F. SYMONDS. Reply in writing to Northrop News, Box 1716. A

BOAT, 5½ h.p. Evinrude outboard engine, 14' plywood hull, jointed rib construction, $180, CHESTER SWANSON, SU. 1-1865. A

CHEVROLET, 1936 4-door, good condition, good tires, radio, excellent work car, $65 cash, ROBERT W. MEFFAN, FR. 4-2649. A

FORD, 1952 V-8 custom club coupe, radio and heater, low mileage, excellent mechanical condition, $1395, T. W. BLACKMORE, OX. 3-1396. A

ACCORDION, 120 bass, child size, 3 months old, cost $300, $200; VIOLIN, child size, new case, good buy for beginner, $18.95; DODGE, 1941 4-door sedan, good paint, vacuum shift, and 1936 DODGE, 4-door sedan, good motor, both cars for $150, RALPH W. FERRY. Reply in writing to Northrop News, Box 1709. A

SCOOTER, Cushman 1946 model with transmission, has '54 plates, $65, JOHN A. HARTINGER, OR. 7-3801. A

CHEVROLET, '46 4-door sedan, radio, heater, very clean, $295, FERD O'DOM. Reply in writing to Northrop News, Box 1710. A

CHEVROLET, two-door, late '49, looks and runs like new, $725 cash, ROBERT BARR, PL. 6-5539. A

UNIFORMS, Air Force blue BATTLE JACKET, and DRESS BLOUSE, size 40; PANTS, size 34, reasonable, GEORGE HENNESSEY, OS. 6-8101. A

AIRPLANE, 65 h.p. fabric wing Luscombe with metal prop and wheel pants, $750; CHEVROLET, 1946, 2-door sedan, radio, heater, spotlight, recently overhauled engine, $395, DAVID J. BEAN. Reply in writing to Northrop News, Box 1711. A

REFRIGERATOR, electric, Hotpoint 6.5 cubic feet, perfect condition, must sell immediately, $45; AUTOMOBILE, antique-classic, 1925 McFarlan limousine, 6 cylinder, 572 cubic inches triple ignition, dual cams, 4 valves per cylinder, aluminum body, cost $13,500 new, make offer, C. H. BERNHARDT, ORchard 1-6460. A

OLDSMOBILE coupe, 1936, excellent condition, good tires, engine in good condition, new radiator, good transportation car, $125, G. C. HAFFLEY, AX. 7209. A

PEAFOWL, one pair unrelated Blue Indian, very reasonable, JAMES L. BUCHANAN, AX. 3-2943. A

HOUSE TRAILER, 27', 1953, my equity $700—balance can be financed, JANET M. NEWLIN, OSborne 6-9178. A

ENGINE, complete for 1941 Chrysler, $35, O. A. MORENO, OR. 2-1508. A

CAMERA, Eastman Pony 135, like new, leather carrying case, $25 complete, D. E. LISTER, NEwmark 5-6244. A

WASHING MACHINE, Hotpoint, white porcelain, excellent condition, $25, D. C. TROY, AX. 3-4149. A

HOUSE TRAILER, 1946 Prairie Schooner, 27' long, Eastern built, $800, W. L. STONE. Reply in writing to Northrop News, Box 1708. A

HOUSE TRAILER, factory built, 12', butane stove, good tires very clean, $395, R. G. WEAVER, ORchard 7-4284. A

RADIO, S-76 Hallicrafters, 3 months old, $125; DYNAMOTOR, Elmac mobile transmitter morrow triband, P.E. 103, $150, EUGENE TUEL. Reply in writing to Northrop News, Box 1707. A

HOUSE, large, 3-bedroom, near markets, schools, churches, double garage, hardwood floors, automatic floor furnace. Asking price $13,500—easy financing; PIANO, Starck baby grand, Louis XV mahogany with matching bench, excellent condition, beautiful tone, $975, H. A. MUSSENDEN, PLymouth 5-6043. A

FOR SALE

CHEVROLET, 1947 convertible, clean, mechanically good, top excellent, radio, heater, $379.50, FRANK C. HOLLISTER. Reply in writing to Northrop News, Box 1729. A

TYPEWRITER, Remington portable, $40. BETTY HARSEY, AX. 2-6844. A

BENDIX WASHER, fully automatic, $50. NORMAN C. GLASS. Reply in writing to Northrop News, Box 1705. A

PLYMOUTH, 1941 5-passenger special deluxe club coupe, $250, radio, clean car. LEO P. RENAUD, OS. 6-6948. A

HOUSE TRAILER, 19', '47 model, $400. MARION P. STUBBS, PLeasant 1-6250. A

MERCURY, 1949, 2-door sedan, maroon, good condition, radio and heater, upholstery in good condition, $500 for my equity, MERYL PETERSON. Reply in writing to Northrop News, Box 1704. A

KELVINATOR, 1947, 7.5 cubic feet, excellent condition, $95. I will pay delivery charges. WILSON S. GAREY, AR. 3-5792. A

SCOOTER, 1952 Cushman, Husky, low mileage, $75. E. C. ELLIS, DA. 6-3760 after 7 p.m. A

MOTORCYCLE, Mustang '49, good condition, $100. F. G. HARGROVE, OSborne 5-1076. A

HOUSE TRAILER, 1949 Glider, 30' long, sleeps 4, bathroom with shower — ideal for Palmdale living. RAY COLE, PLeasant 2-1961 after 5:00 p.m. A

ENCYCLOPEDIA, one complete set with 20 volumes, new Collier's, perfect condition, less than 1 year old, $95 — original cost $245; beautiful solid mahogany BOOKCASE, make offer. BOB LEBERT, OR. 2-4263. A

RIFLE, .22 caliber, Winchester model 72, $18; ACCORDION, 80 bass, case included, $60. JOHN REX RUSSEL, FR. 4-6137. A

HOUSE TRAILER, 2-rooms, aluminum, 21' overall, $300. ETHYLE ADAMS. Reply in writing to Northrop News, Box 1701. A

GAS REFRIGERATOR, 6' Servel, good condition, $45. AL LEITCH, CR. 6-1708. A

PONTIAC, 1940, Club Coupe, runs very well, body and tires excellent, $85. J. M. BRUST, CR. 1-6054. A

M.G. 1952 M.K. II, radio, heater, original owner, $1390, E. T. HAMPTON, OS. 5-3563. A

MOTORCYCLE, 1950 BSA 500 cc, excellent condition, spring frame, $300, J. F. SNEDAKER, OS. 5-3563. A

MERCURY, '49 convertible, radio, heater, overdrive, make offer; MOTORCYCLE, '52 AJS 21", good transportation, excellent condition, $275, C. A. YEAGLE, OSborne 5-6007. A

AMPLIFIER, Newcomb Classic 15, remote control unit, never been registered, like new, $150. ROBERT F. BURNHAM, PArkview 1-2966. A

CHEVROLET, '49 convertible, new top and paint, radio, spotlight, heater, 5 white sidewalls, new valves, excellent condition, $850, R. W. YOUNG, OLympic 4537. A

FORD, 1947 maroon club coupe, radio, excellent condition, $395, MATTIE CLYNE. OR. 8-2093. A

FORD, 1949 custom V-8 four-door sedan, spotlight, radio and heater, clean, good tires, call after 6 p.m., $525, E. E. ROBINSON, NEwmark 5-6096. A

OLDSMOBILE 88, 1950 yellow 4-door deluxe, radio, heater, Hydramatic, window washer, $905 cash only, R. TRUMPIS, NO. 2-3875. A

DINING ROOM SET, 8-piece in perfect condition; also drop leaf TABLE and four CHAIRS, RCA RADIO RECORD PLAYER, small tables, etc., JANET DOUGLAS PLymouth 4-2726. A

PLYMOUTH, 1946 4-door, new paint, light green, good tires, good motor, 48,000 miles, very clean inside, will have to be licensed $15, $350, PETE YATES. PL. 3-6144. A

WASHING MACHINE, Maytag, wringer type, 5 years old, very good condition, $35. J. R. KUSTER, ORchard 2-5633. A

UPRIGHT FREEZER, 19.6 cu. ft. Hibbard-Sub-Zero, 2 years old, 5-year warranty, perfect condition, cost $600 new, asking price $400, FREDERICK BURGESS. Reply in writing to Northrop News, Box 1727. A

SEWING MACHINE, White rotary electric console, excellent condition, $50, J. MEYER. FRontier 2-0264. A

DESK AND CHAIR, office type; portable TYPEWRITER; BOOKCASE, ROBERT G. STIRLING. Reply in writing to Northrop News, Box 1722. A

TABLE, Duncan-Phyfe mahogany drop leaf, and 2 CHAIRS upholstered in chartreuse, very suitable for single or small apartment; two hunter green SHAG RUGS 9 x 12 and 6 x 8. VIRGINIA HESS, AX. 1-7603 after 6 p.m. A

WASHER, Kenmore automatic, $40; BOOKCASE, like new, blond, modern design, $30, D. BLOMBERG, OR. 2-7459. A

MOTORCYCLE, 1946 Harley 74 OHV. ported, polished, Herbert cams, completely rebuilt last year, $200, J. W. DONEGAN, Long Beach 4-8916. A

DODGE, 1937 coupe, runs good, ideal for utility and economical transportation, $60, N. E. ALBIN, ME. 4-5112. A

CADILLAC, 1948 convertible, fully equipped with Hydramatic drive, radio, heater and extras, new yellow enamel paint job, reflects care it has received, FRontier 4-0359 after 5 p.m., $1095 or make offer. A

FOR SALE

AIRPLANE, Stinson Voyager 150 h.p., late '47 model, external baggage compartment, fabric excellent, recovered August '50, 30 hours since motor overhaul, two-way radio, new license on delivery, total time 980 hours, $2400, LUCILLE MARSHALL, AX. 1-3744. A

DAVENPORT and CHAIR, dark green damask, green fringe on bottom, perfect condition, reasonable, N. SPANGLER, MEnlo 4-3400. A

PARAKEETS, beautiful, young, healthy birds, all colors, will make wonderful pets or future breeders, $3.50 each, LOUISE McCULLOCH, ORchard 2-2434. A

CRIB, all metal, 54"x29", good through age 6, with 2 air spring mattresses $10. Laddie LAWN MOWER $1; Ladies' white figure ICE SKATES, size 6B, $10, WILSON S. GAREY, AR. 7-3847. A

HOUSE, 3-bedroom, on five acres, Lancaster, 3 miles west of Northrop. $11,500 total with $2000 down, L. H. GRAHAM. Reply in writing to Northrop News, Box 1726. A

CHEVROLET, 1952 Bel Air, radio, heater, Powerglide, $1695, E. L. DAVIS. Reply in writing to Northrop News, Box 1725. A

PLYMOUTH, '42 4-door, good engine and tires, new paint, $175, HARRY WOOD. Reply in writing to Northrop News, Box 1724. A

PONTIAC, 1941 4-door sedan, good engine, not an oil burner, $95 or best offer, ED DENNIS. Reply in writing to Northrop News, Box 1717. A

BIKE, boy's 26" Schwinn, spring fork, generator, headlight, A-1 condition, reasonable. B. W. GREENSLADE, EX. 7-3204. A

OLDSMOBILE, 1953 "98" convertible, low mileage and exceptionally clean, see to appreciate; AIRPLANE, 1946 Aeronca Chief, extra nice, 50 hours since major overhaul and conversion to 75 h.p., licensed to August 1954, TED R. NICHOLAS, OS. 5-5521. A

"Did Tex take the shortcut?"

CEMENT MIXER, electric, cost $128, excellent condition, $60; deep sea SPINNING ROD, Rumer spinning reel with extra spool, line, used one time, cost $75, $35; Centaur REEL and LINE, $20; Ceka REEL, $15.50 or $60 for all, C. NEWMAN, OS. 6-4841. A

BOAT, non-sinkable, like new, 12' stainless steel boat, 164 lbs., oars and anchor included, $260 cash, will sell itself on sight, PL. 6-4837 after 4:30 p.m. A

TYPEWRITER, rebuilt Underwood Noiseless standard, needs some adjustments, $30; almost new CONTOUR CHAIR, green and grey, reasonable, CATHERINE PRUITT, OSborne 5-2491. A

ELECTRIC RANGE, automatic oven control, 1 year old, perfect condition, $75, J. E. KING, OS. 5-2959. A

TRAILER, one-wheel, all steel body, 48" x 42", new tire, 1954 license, $40, A. M. OCSENAS, TOpaz 2-9566. A

HOUSE, by owner, 3-bedroom, Westchester, large fenced yard, bar-b-que and patio, garbage disposal, Dishmaster, fireplace, $13,750—has 4% G.I. loan on $8250—payments $61 including tax and insurance, STANLEY R. MURNANE, OR. 1-3047. A

DODGE, '41, one-half ton panel truck, $200, JOE J. SHETULSKI. Reply in writing to Northrop News, Box 1718. A

BABY BUTLER, 2-years old, sliding tray and adjustable legs, $25; Welch BABY BUGGY, large size collapsible, two-in-one CARSEAT, CARBED $3.50; DON L. KIRKSEY, MEnlo 4-2280. A

FOR SALE

HOBBYISTS, airplane photo collection, over 4000 negatives of airplanes covering 1917 to 1941, make an offer, OLIVER PHILLIPS. Reply in writing to Northrop News, Box 1721. A

LATHE, South Bend 9" x 36", vise, drill press, and bench grinder, E. F. GREEN, TW. 0059. A

RUG, multi-colored, 12' x 15' oval braided, $65, M. B. BABCOCK, OR. 2-3141. A

PONTIAC, 1950, 4-door sedan, Hydramatic, heater, radio, 4 new tires, very clean, bought in December 1950, $1050, one owner. T. O. PRATT, MEnlo 4-6898.

HOUSE, 3-bedroom modern, corner lot 67' x 150', 3 years old, Westinghouse garbage disposal, w/w carpeting, draw drapes, close to schools, patio with overhang and $500 worth of tropicals, $16,500 from owner, VIRGINIA BAUBY. Reply in writing to Northrop News, Box 1720. A

PLYMOUTH, 1948 4-door special deluxe sedan, good running motor, new brakes, generator, battery, needs muffler and some body work, '54 tabs paid, $200 cash, D. J. NICHOLS, L. B. 394150. A

VACUUM CLEANER, all attachments, 8 months old, Hoover tank type, $50. JEAN E. ROBERTS. Reply in writing to Northrop News, Box 1730. A

MOVIE CAMERA, Bolex 16mm, Meyer f 1.5 1" lens, Meyer f 2.8 3" lens and Xenor f 1.9 16mm (wide angle) lens, $150. ROBERT L. LLOYD, PL. 5-0968. A

MOTORCYCLE, Indian Chief, 46, full dress, red, good condition, $150; FORD coupe, '37, transportation car, $70. P. A. CLARKE, PL. 3-9822 after 6 p.m. A

LOT in Palm Springs, one mile from business center, R-2, $2500 cash. HARVEY W. BRYANT, Long Beach 8-0139. A

PLASTIC LAMINATING MACHINE, Warner, for I.D. cards, photos, nameplates, trim board, plastic, polish plates, and all accessories complete for operation, value $400, $250. M. R. ANDERSON, NE. 2-9709. A

CADILLAC, 1941, straight shift, radio, heater, plastic seat covers, clean, absolutely good mechanically, original owner, $375, F. M. PEARMAN, ME. 9-3006. A

PIANO, Royal Starr, medium size, excellent condition, cost over $800, sell $295 cash, includes bench; pre-war DINING ROOM SET, walnut, table with extra leaf, 4 chairs, buffet, clean undamaged, $75; WRISTWATCH, man's Hamilton, like new, cost $90, will take $40, guaranteed. F. R. GARY, OR. 7-7504, A

HOUSE, 3-bedroom, San Fernando Valley, new, never occupied, full G.I. loan, $14,750; HOUSE, 2-bedrooms, den, w/w carpeting, water softener, garbage disposal, dish washer, 1400 sq. feet, West Los Angeles, $16,750; BUICK, '40 Super, radio, heater, w/w tires, overhauled engine and transmission, new brakes, original throughout, $175. M. SETZER, EX. 8-1503. A

CAMERA, 8mm Bell & Howell #134 and carrying case, projector 8mm, River carrying case, light meter G.E., $125. W. SNYDER, TOrrey 6-4797. A

CAMERA, 4X5 Anniversary Speed Graphic, complete w/case, holders, FPA, extension, 6" Tessar f 4.5 lens in compur shutter, filters, etc., $180. EDWARD J. HELDING, OR. 2-3310. A

MICROMETER, nearly new Starrett depth, mahogany box; last word INDICATOR; Brown & Sharpe PARALLEL BARS, slightly used; 4 custom WHEEL DISCS for '50, '51 or '52 Plymouth, make offers by telephoning J. D. PRATTE, OS. 5-3944.

WANTED TO BUY

BELT SANDERS, and BAND SAW. O. A. MORENO, OR. 2-1508. B

TRICYCLE, Child's. KEN TURNER, ME. 9-3430. B

OUTBOARD MOTOR, used, about 3 h.p. JERRY BURKE, ORchard 1-1992. B

PIANO, practice piano, upright, any color, $50 — $150. ARTHUR E. ENGLAND. Reply in writing to Northrop News, Box 1712. B

HOUSE or income property in Manchester — Vermont area. HARRY KLINE, AX. 2-4146. B

BUNK BEDS, wood or metal optional, reasonable. ROBERT KRAUTH. Reply in writing to Northrop News, Box 1736. B

TV 7" table model, must be in good condition, price open. L. SPENCER, OS. 5-2818. B

TV CHASSIS, RCA 630, electromagnetic deflection, 4 video IF stages, 2 5U4 low-voltage rectifiers, less CRT, ROBERT J. WINSTANLEY, DU. 2-0664. B

TRANSPORTATION CAR, good condition, coupe preferred, no junk wanted, should be mechanically sound and have good rubber, will pay up to $250, HOMER JUST. Reply in writing to Northrop News, Box 1719. B

WASHING MACHINE, automatic, want to take over contract or pay cash for good machine, also want GARBAGE DISPOSAL unit. TUCKER, WE. 3-2665 after 6:30 p.m. B

MOTORCYCLE, Indian, Henderson, Excelsior 4 cylinder, must be complete, preferably one with sidecar, must be reasonable, DONALD W. WEDEL. Reply in writing to Northrop News, Box 1733. B

BBSF CLASSIFIED

(Continued from Page 7)

FOR TRADE

CHEVROLET '41 and necessary cash for good post war car, preferably Dodge or Plymouth, call FR. 9-2529 before 3:30 p.m. C

MOTORCYCLE, 1952 Ariel Springer, excellent condition, trade for small walk-in vacation trailer. Ray E. Myers, MEnlo 4-7452. C

OUTBOARD MOTOR, 5 h.p., plus cash in trade for a 10 h.p. outboard motor with reverse. JERRY BURKE, ORchard 1-1992. C

CHEVROLET, 1931 and two good quality WRIST WATCHES, will trade for drill press, vise, or grinder, HARRY HARWOOD, OR. 8-6444. C

BINOCULARS, 7X50 night glasses, American made, will trade for 5 or 7½ h.p. outboard motor. EUGENE TUEL. Reply in writing to Northrop News, Box 1707. C

DE SOTO, 1953 Powermaster 6, 6-passenger coupe, 8000 miles, radio, like new, will take 1948 4-door sedan, preferably De Soto, for equity. ETHEL G. SIMPSON, OSborne 6-5425. C

CHINCHILLAS, one pair, the best money can buy, will litter soon, cage and all, trade for good piano, value about $500, WILSON S. GAREY, AR. 3-5792 evenings. C

DODGE, '40 4-door sedan, will trade for late model stove or other furniture, N. E. GREPPIN, PLymouth 4-9893. C

OUTBOARD, Johnson 22 h.p. top condition, trade for sporting goods, camera equipment, pipe, lumber, or what have you. TUCKER, WE. 3-2665 after 6:30 p.m. C

MOTORCYCLES, REFRIGERATOR or various items to trade for Indian, Henderson, Excelsior 4 cylinder motorcycle, must be complete, preferably one with sidecar, must be reasonable. DONALD W. WEDEL. Reply in writing to Northrop News, Box 1733. C

FOR SALE OR TRADE

HOUSE, 3-bedroom, will trade my equity of $1400 plus improvements, for good size house trailer approximately 25′ or over. Reply in writing to Northrop News, Box 1706. M

TELEVISION SET, will trade or sell table model 16″ Packard-Bell for good two-speed 3¾ X 7½ tape recorder. GEORGE EGNER. Reply in writing to Northrop News, Box 1703. M

STARRETT MICROMETER, 1″ to 2″, used one month, chrome satin finish, trade for small drafting or mechanical drawing set or what have you, $17.50 value — cash $14. JACK CLARK. Reply in writing to Northrop News, Box 1714. M

RADIO, custom for 1949-50 Ford, used three months; also table model IRONER, trade for tape recorder or 120 bass accordion. BOB BAUER, DU. 6-9963. M

NORGE REFRIGERATOR and 4-burner electric RANGE with oven, will trade for hi-fi parts, camera or pistol or make offer. JACK CATHERIN, Topanga 2651 or Topanga 2682. M

CHINCHILLAS, quality stock, NCBA member, will sell or trade for real estate, prefer Palmdale or vicinity, will consider Big Bear lots or cabin. W. D. LESTER. Reply in writing to Northrop News, Box 1702. M

WASHER, Kenmore semi-automatic, two years old, excellent condition, $40 or what have you for trade; CHRONOGRAPH, "Crawler", 21 jewel, 3 dials, stop-start buttons, cost $80 new, excellent condition, $40 or best offer, JOE HORKA, OS. 5-4954. M

REVOLVER, .38 Colt special $30, or trade for typewriter, hauling trailer, or what have you, C. D. WILLIAMSON, AD. 4-8197. M

WASHER, Easy Spindrier, good condition, $50 cash or reasonable trade for anything of value, R. E. ANDREWS, EX. 8-8619. M

CAMERA—Busch Pressman, 2¼ x 3¼, Kalart synchronized range finder, synchronized flash, film pack adapter, size 120 roll film adapter, sheet film holder, ground glass graphic back, wood tripod, "Service" self-timer, Watson view finder, Daylite loader, for sale or will trade for 35mm, J. E. DOBBS, EL. 2029. M

BUICK, 1941 convertible, will trade for motorcycle of equal value, make offer, J. L. SMELSER. Reply in writing to Northrop News, Box 1723. M

STOVE, Avon Universal, upright oven, good condition, $25; or will trade for chest of drawers or bookcase of equal value, MILDRED B. DAVIS. Reply in writing to Northrop News, Box 1737. M

TWO HOUSES on 1 lot, income property, close to Northrop, will trade for property or land near Palmdale, OLLIE ALLEN, ME. 3-0849. M

BUICK, 1950 Special 2-door, must be sold, will take older car or pickup and cash in trade. W. A. ROBINSON. Reply in writing to Northrop News, Box 1731.

FOR SALE OR TRADE

SEARCHMASTER Geiger counter, Spectroscope, uranium samples and prospecting book, value over $75, trade for 2-wheel utility trailer, guns, golf clubs, fishing tackle, and part cash, or what have you? JOHN K. DAWSON, MEnlo 4-7762. M

FREE

DOG, female collie, 1 year old, sable and white, loves children, G. OUWERKERK, OR. 2-8238. D

PUPS, springer and cocker mix, beautifully marked, will be ready for pick-up in about 3 weeks. LLOYD R. FORSTROM, OR. 8-2874. D

RENTALS OFFERED

APARTMENT, single, furnished, utilities paid, $55 per month. R. WEESNER, TW. 1368. E

APARTMENT, new, deluxe 1-bedroom, unfurnished, adults only, garage, TV plug, disposal, Laundromat, bus service, North Inglewood, $75. C. B. SPENCER, OR. 2-3169. E

HOUSE, furnished, 3-bedroom, garage, location in Inglewood, large yard, $110 per month. WILMA AST, OS. 5-2293 or OS. 6-6449. E

HOUSE, beautiful three year old, 2-bedroom and den, wall to wall carpeting, for lease, available March 15th, $115 month. TRUE W. OSBORN, OS. 6-8679. E

FURNISHED APARTMENT and car port, two blocks south of Northrop gate 4, available April 1, $40 month for one $60 for two, no pets, OS. 6-8877. E

BUSINESS GARAGE building, 50′ wide, 30′ long, about 50′ x 75′ parking in front, H. E. CROWELL, OR. 1-1660. E

HOUSE, 2-bedroom, unfurnished, Hawthorne, R. CUTTS. Reply in writing to Northrop News, Box 1728. E

ROOM for one man, 5 minutes walking distance to Northrop, private entrance, $8 per week, DAVID HADDAD, OS. 6-9567. E

APARTMENTS, new deluxe unfurnished, one and two-bedroom, garage, laundry room, garbage disposal, TV antenna and outlet, adults only, no pets, Montebello, $65 and up, call ANNA POTZ, PLeasant 2-0982. E

SHARE APARTMENT—man 30 to 40 to share small apartment, three blocks from beach, kitchen privileges, I pay utilities, Hermosa Beach, $35, 7:30 to 4:15 shift at Yukon, K. D. RUSSELL, TErminal 4-4742. E

ATTRACTIVE ROOM in new house, kitchen privileges, everything furnished, near transportation and beach, $10 per week, W. MILLER, FR. 2-0930. E

HOUSE, 3-bedroom, garbage disposal, garage, Compton, $87.50 month, J. E. SEYMOUR. Reply in writing to Northrop News, Box 1732. E

RENTALS WANTED

HOUSE, 1-bedroom, walking distance to Northrop, can pay up to $65 per month. JOHN S. PAWLAK, AX. 3-2607. F

HOUSE, 3-bedroom, enclosed yard, Inglewood or Westchester, conscientious, long-term tenants, who will keep yard and house as their own, $100 approximate, ELAINE STEWART, ORegon 8-2452.

CHILD CARE OFFERED

CHILD CARE, mother or grandmother will care for children in your home evenings only, have own transportation, rates according to size of family. T. J. GOSSETT, MEnlo 4-7778. G

CHILD CARE WANTED

CHILD CARE, middle-aged lady to care for two school children, room and board, salary open. MARIE VAIL, FR. 9-2655. H

CHILD CARE, first shift mother with one child to share comfortable home, expenses and child care with a second shift mother. Ext. 641 after 4:45.

LOST

PEN, dark green Parker "51", name, "Charles A. Sherman", engraved on the barrel of the pen. CHARLES A. SHERMAN, ORchard 7-4223. I

DRIVER'S LICENSE in or around Plant I, Gate 4. If found please mail to 2602 Aviation Blvd., Redondo Beach, Calif. REWARD — badly needed to operate car, DAVID PEREZ, jr. J

Sugar, Spice 'n Everything Nice

SUGAR 'N SPICE—Brownies above are members of newly formed NRC Troop 326. Left: Marlene Seda, Judy Seda, Dorothy Cook, Janet Akin, daughter of Jack Akin, Time Standards; Jackie Stine, Judy Constable, Nancy Huddleston, Donna Decker, Sharron Jost, daughter of Raymond Jost, Machine Shop, and Jean Jost, Project Engineering; Sandra Nutt, daughter of David Nutt, Fabrication Missile Guidance; Sharron Spirk, Donna Minnesota, Anne Armstrong, daughter of J. S. Armstrong, Time Standards; and Sandra Rohwedder. Background, left: Ruth Nutt, co-leader; Rita Seda, guest; Jack Akin, master of ceremonies; Don Kohler, NRC Clubhouse manager; Mattie Akin, troop leader.

GMW

(Continued from Page 6)

RIDES WANTED

3:45 p.m. — 12:15 a.m.

(Zone 6)

WILLOW & AMERICAN, Long Beach. Interested in car pool. KENNETH H. LUNSFORD (5510-257, Ext. 2255), L.B. 7-5225. 6-6

(Zone 9)

HWY. 101 AND HAWTHORNE BLVD., Torrance. BARBARA COVEY (4100-211, Ext. 2331). 6-9

MANHATTAN BEACH BLVD. & HAWTHORNE or Inglewood, Lawndale. INEZ SCOTT (4230-222, Ext. 631). (6-9)

(Zone 13)

SEPULVEDA & SAWTELLE or Centinela, Culver City. GINGER ARKILL (5538-225, Ext. 525), EXbrook 8-4007. 6-13

(Zone 14)

BURBANK & VAN NUYS BLVD., Van Nuys. Interested in car pool. GENE NIXON (5520-289, Ext. 2646), ST. 0-8008. 6-14

3:45 p.m. — 1:15 a.m.

(Zone 6)

LONG BEACH BLVD. & 8TH, Long Beach. WILLY D. ELROD, jr. (5585-898, Ext. 1381). 7-6

4:45 p.m. — 1:15 a.m.

(Zone 1)

LEXINGTON & BRAND AVE., Glendale. CHESTER C. BEMIS (7520-232, Ext. 1301), CI. 3-8257. 8-1

SANTA MONICA BLVD. & VERMONT AVE., Hollywood. JAMES PROVENCAL, jr. (5544-262, Ext. 2645), OL. 9684.

(Zone 2)

MISSION RD. & 1ST ST., Los Angeles (33). VICTORIA MORRIS (5585-449, Ext. 1381). 8-2

BROADWAY AND FLORENCE, Los Angeles. ELMER H. McPHERSON (5620-274, Ext. 2233). 8-2

(Zone 3)

VERNON & LIMA, Los Angeles. H. TROUP (5586-298, Ext. 1973), AD. 3-2960. 8-3

WESTERN & 104TH or 106th, Los Angeles. Interested in car pool. CONNIE MULLEN (5507-619, Ext. 526), PL. 4-7933. 8-3

BROADWAY AND CENTURY, Los Angeles. BETTY J. VEST (5507-617, Ext. 526), PL. 4-0659. 8-3

(Zone 4)

IMPERIAL HWY. AND FIGUEROA, Los Angeles. WALTON BOSHEAR (5504-474, Ext. 1424), PL. 4-5672. 8-4

TWEEDY BLVD. & LONG BEACH BLVD., South Gate. J. R. SKIPPER (5587-289, Ext. 1973), LO. 6-9475. 8-4

DOWNEY AVE. & GARDENDALE, Downey. ED BATES (5232-237, Ext. 2040). (8-4)

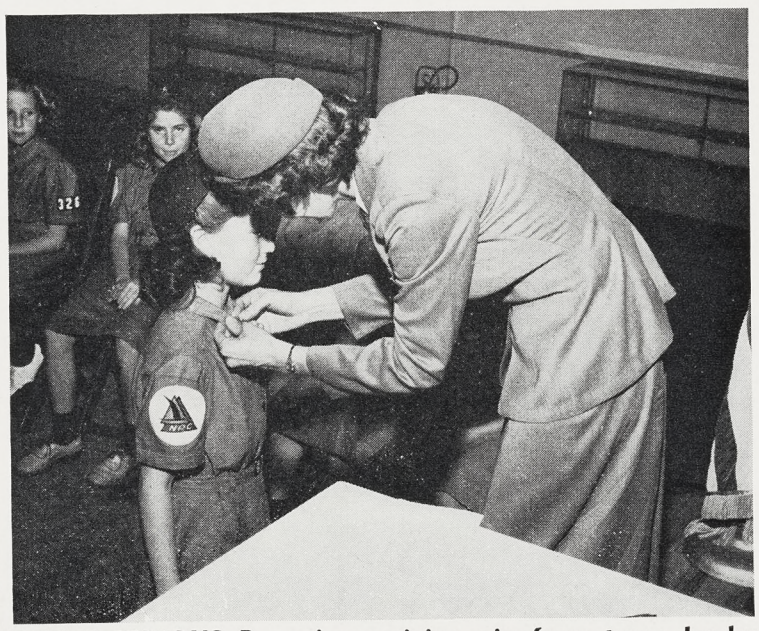
(Zone 5)

BELLFLOWER & CONANT, Long Beach (8). LORETTA BRIDGWOOD (5621-562, Ext. 2208), L.B. 390680. 8-5

RAVENNA & 232ND ST., Wilmington, L. J. MARTIN (5503-897, Ext. 492). 8-5

(Zone 6)

WESTERN & 145TH, Gardena. JAY CLARK (5588-484, Ext. 1529) ME. 9-3685 (neighbor's). 8-6



LITTLE SERIOUS Brownie receiving pin from troop leader Mattie Akin is Sharron Spirk. In background, left; Dorothy Cook and Janet Akin. Brownie Investiture was held at NRC Clubhouse on February 28. Troop, sponsored by NRC for little girls between ages of 7 and 9, has fourteen members and still has openings for four more future Girl Scouts.

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Zone 10)

DOTY AVE. AND ROSECRANS, Hawthorne. FRANCES BAKER (5507-284, Ext. 526). 8-10

MANHATTAN BEACH & AVIATION, Manhattan Beach. MARTHA MANLEY (9320-214, Ext. 1681), FRontier 9-2005. 8-10

(Zone 12)

CENTURY BLVD. & BUFORD, Inglewood. MARIANNE F. GREEN (5507-294, Ext. 256), OR. 8-4489. 8-12

WILSHIRE BLVD. & 17TH ST., Santa Monica. U. P. HOWE (5504-255, Ext. 1424), EXbrook 5-9877. 8-12

WILEY POST & MANCHESTER, Westchester. LOUIS J. PASQUALONE (5524-625, Ext. 2209), OR. 7-6050. 8-12

(Zone 13)

HILLCREST AVE. & MARKET ST., Inglewood. CHRIS AYALA (5620-275, Ext. 2233). (8-13)

(Zone 14)

WILSHIRE & LA BREA, Los Angeles. E. M. MOODY (5621-299, Ext. 2208), WE. 1-3359. 8-14

BEVERLY BLVD. & LA BREA or Fairfax, Los Angeles. CHRISTIE BOYKIN (5373-239, Ext. 537), WEbster 8-9293. 8-14

12:15 a.m. — 7:00 a.m.

(Zone 2)

FIGUEROA & THIRD ST., Los Angeles. LARRY MOON (5588-982, Ext. 2619), MAdison 9-0765. 9-2

Miscellaneous (Split Shifts)

(Zone 2)

NORTH FIGUEROA in Highland Park. (Hours: 4:15 to 12:45). ROBERT K. HOY (6325-227, Ext. 1611), ALbany 9445. (10-2)

ONTARIO CAGERS TOP HAWTHORNE NIGHT QUINTET

Ontario Flight facility's dynamic basketball team has chalked up another impressive victory, this time against Hawthorne's night shift hoopsters.

Meeting the visitors from Hawthorne in the Ontario YMCA gym on Saturday, March 13, Ontario Norcrafters won, 71 to 33.

Respective team managers — Rex McBratney for Ontario, and Charles George for Hawthorne's night boys.

RIDES WANTED

Miscellaneous (Split Shifts)

(Zone 5)

EL SEGUNDO & SAN PEDRO, Los Angeles. (Hours: 7:00 to 4:45). LOSSIE L. HAWTHORNE (5508-167, Ext. 2230), ME. 4-0581. 10-5

(Zone 9)

VINCENT & JUANITA AVES., Redondo Beach. (Hours: 4:15 to 12:45). COLENE BUZZARD (6260-216, Ext. 496), FRontier 2-5955. 10-9

(Zone 10)

FREEMAN AND 168TH ST., Lawndale. Will meet ride at Prairie & 168th if necessary. (Hours: 4:15 to 12:45). RUTH DE WITT (6260-223, Ext. 496), FRontier 4-0363. 10-10

(Zone 14)

HOLLYWOOD AND HIGHLAND. (Hours 4:15 to 12:45), Hollywood 28. VERNON M. CRAWFORD (9350-68, Ext. 2298), HOllywood 7-4161. 10-14

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information in activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Paul Nelson, commissioner
Figure drawing and painting each Thursday evening, 7:00 to 10:00.

BALLROOM DANCING
Second series of lessons every other Saturday, NRC Clubhouse.

BASKETBALL CLUB (day)
Larry Baird, acting commissioner
Interdepartmental League play Monday and Thursday, 7:45 to 10:00, Leuzinger. First Annual NRC Basketball Tournament at Leuzinger High School

BASKETBALL CLUB (night)
Available practice sessions at Rosecrans Playground, 149th and Vermont, Gardena—Monday and Tuesday mornings, 10:00 to 12:00.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily—Plant I, Plaster Shop tent, 11:00 a.m.; Plant II, second floor, center conference rm., 12:30 p.m.; Plant III, conference room 2, 12:15.

BOAT CLUB
Elmer Chiodo, commissioner
Next meeting Monday, April 5th, 7:30 p.m., NRC Clubhouse.

BOWLING CLUB (day)
Chuck Carson, commissioner
Annual Spring Tournament, Hawthorne Bowl, Sunday, April 25, and May 2. Entries must be in PA&S by April 2. Summer leagues now forming — information available at PA&S.

BOWLING CLUB (night)
Tony Cordoza, commissioner
Watch bulletin boards for information on Summer Leagues.

BRIDGE CLUB
Walt Darby, acting commissioner
Meet 2nd & 4th Tuesday each month. Next meeting April 13, NRC Clubhouse. Start play at 7:30 p.m.

CAMERA CLUB (day)
George Fuller, commissioner
Meet every other Friday, NRC Clubhouse Annex. Next meeting April 2, 7:30 p.m. Negative and Print Demonstration and Snapshot Contest. (This program planned for beginners.)

CAMERA CLUB (night)
Adam Slusarz, commissioner
Meet every other Saturday evening, NRC Clubhouse. Next meeting April 3, 7:30 p.m.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GEM AND MINERAL CLUB
Art Westermann, acting commissoner.
Meet fourth Wednesday of each month at the NRC Clubhouse. First meeting, March 24, 7:30 p.m. Families welcome.

GOLF CLUB (day)
Jim Milne, commissioner
Twilight leagues now being formed. First league competition to coincide with beginning of daylight saving.

GUN CLUB
Dick Booth, commissioner
Meet every other Tuesday, 7:30 p.m., NRC Clubhouse. Next meet March 30.

MIXED CHORUS
Ken Schumacher, acting commissioner
Meet every Wednesday evening, NRC Clubhouse, Fountain Room, 7:30 p.m.

PHILATELIC CLUB
George Borton, commissioner
Philatelic and Numismatic combined club meets 2nd and 4th Monday each month. Next meeting April 12, NRC Clubhouse, 7:30 p.m.

PLAYERS GROUP
Meet every Wednesday evening, at the NRC Clubhouse Annex at 7:30 p.m.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun. April 4, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, April 1.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot April 3. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKI CLUB
Ken Waters, acting commissioner
Meet every Wednesday evening 7:30 p.m., at NRC Clubhouse.

SKIN DIVING
Eldon Burgess, commissioner
Next meeeting will be April 19, NRC Clubhouse Board Room.

SPORT CAR
Doug Hugill, commissioner
Meet second Thursday each month, NRC Clubhouse.

SQUARE DANCING
Dave Dyer, commissioner
Meet at Swimms Barn, 15016 Daphne St., Gardena, from 7:00 to 10:00 p.m. Meet 1st, 2nd, 4th & 5th Sundays.

SURF FISHING
Ralph Schamp, commissioner
Meet NRC Clubhouse, 7:30 p.m., 1st Tuesday of month. Next meeting April 6.

TOASTMASTERS 212 (day)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS 1398 (night)
Eugene Gruber, representative
Meet Thursdays, 12:00 noon, Western Club, 15516 So. Western, Gardena.

TROPICAL FISH CLUB
Orval Coley, commissioner
Meet last Tuesday of month. Next meeting March 30, NRC Clubhouse.

Invitational Tournament Opens Play

Twenty-two cage quintets, representing Northrop, North American, AiResearch, Douglas and Hughes, are scrambling for the championship of the first annual Northrop Invitational Basketball Tournament.

The huge turnout began elimination play last Monday at Leuzinger High, when Northrop's Machine Shop squad tangled with North American's Department 64 in the opening tilt at 7:15 p.m.

Play continues with three games slated per night, on March 23, 25, 26, and 29. Two battles follow on March 30 and April 1. There is one tussle scheduled for April 2, and the tournament championship will be decided at 8:30 p.m. on April 5.

All games are being played at Leuzinger High School, which is located just off Rosecrans, between Prairie Avenue and Hawthorne Boulevard.

Full schedule of opening round games follows:

March 22 — 7:15 p.m., Northrop 5501 vs North American Department 64; 8:15 p.m., AiResearch Cagers vs NA Downey Bucket Busters; 9:15 p.m., Douglas S.M. vs Northrop 5503.

March 23 — 7:15 p.m., North American Department 14 vs Douglas L.B. Piping Group; 8:15 p.m., North American Electrical vs Douglas E.S. Trojans; 9:15 p.m., Hughes Liners vs AiResearch Machine Shop.

March 25 — 7:15 p.m., Hughes Avion vs North American Department 35; 8:15 p.m., Northrop 3350 vs North American Department 26; 9:15 p.m., Hughes Whiz Kids vs North American Department 21.

March 26 — 7:15 p.m., North American Downey Jets vs Northrop 5100; 8:15 p.m., Hughes Transistor Flashes vs Northrop 9340.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Dorothy Hodgson, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BASKETBALL
Betty Talley, acting commissioner
League now in progress at Ardmore Playground Tuesday evening, 7:30 p.m.

BOWLING
Florence Rice, commisioner
Ladies Handicap League in progress at Torrance Bowl, Tues., 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Meet once each month.

FLOWER CLUB
Mary Nelson, commissioner
Meet second Tuesday of each month, NRC Clubhouse, 7:30 p.m.

GOLF CLUB
New series of golf lessons starting soon. Watch bulletin boards.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse.

SOFTBALL
Practice sessions March 24, 29 and 31. Manchester Playground, 8800 So. Hoover, 6:00 to 7:30 p.m. Submit name to PA&S, ext. 2784.

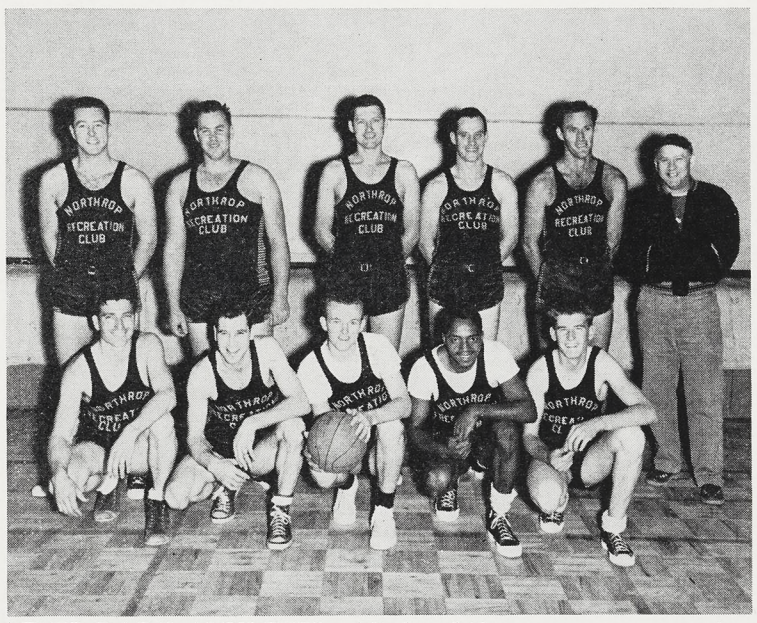
KNITTING CLUB
Nina Shannon, acting commissioner
Meet Tuesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP (MARINERS)
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Peggy Barber, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 to 6:30 p.m. Baby sitting provided if necessary.

BALLET CLASS
Lessons scheduled every Thursday at 8:00 p.m., NRC Clubhouse. $0.50 per person per lesson.

Night Shift Cagers



AFTER-DARK ATHLETES—Night shift cagers representing NRC in the Southwest Industrial League are pictured above. Front row, left: Bob Coulter, 5503; Leo Loeffler, 5437; John Shields, 5534; Melvin Overton, 5503; Gene Robinson, 5224. Standing, left: Dave Bundy, 5353; Frank Rosenstiel, 5437; Ross Jones, 5503; Maurice Keleher, 4120; Ernie Nixon, 5587; Charley George, 5620, coach. Team has top standing.

Top Cagers Selected In Scorpion, Snark Leagues

Most valuable player, leading scorer, and All Star team selections by managers and officials of NRC Scorpion and Snark basketball leagues have been announced by Commissioner Larry Baird.

The Scorpions chose Milton Woolridge, Department 5100, as that league's most valuable player; the Snark selection is Dean Richardson, Department 3350.

Scorpion loop leading scorer was Machine Shop's G. W. Fuller, with 181 points. Dean Richardson scored again with 99 points to give him leading scorer honors in the Snark league.

All Star team selections:

Scorpion All-Stars

George Forbes	(9340)
Milton Woolridge	(5100)
Charles Bosses	(5501)
G. W. Fuller	(5501)
Reed Peterson	(Lynwood)

Snark All-Stars

Dean Richardson	(3350)
Ted Abeyta	(5503)
Barney Nissen	(3350)
Spencer Williams	(8620)
George Wells	(5503)

DIAMOND PLANS BEING LAID IN NRC SOFTBALL

Women's Softball leagues have scheduled practice sessions starting March 24, 29, and 31 at Manchester Playground, 8800 South Hoover, from 6:00 to 7:30 p.m. All interested are requested to submit names to PA&S.

Men's Softball leagues will start non-scheduled practice games on April 12 through 30. Practice will be held at Rosecrans Playground. Roster blanks for departmental entries in the 1954 Softball League will soon be available. Contact PA&S, extension 2784, for additional information.

HONOLULU FILM, ENSENADA PIX FOR BOAT CLUB

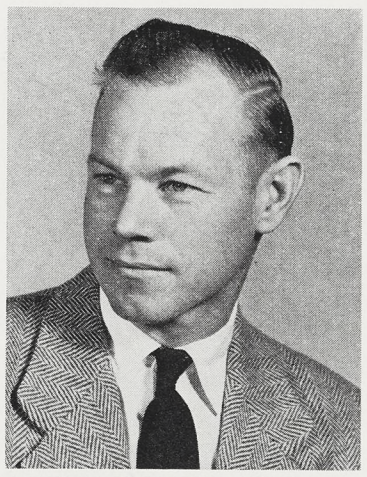
Movies and 3D color slides will be the featured entertainment at the next meeting of the NRC Boat Club, to be held on April 5 at 8:00 p.m. in the NRC Clubhouse.

The movies, taken aboard the 47-foot sloop "Attorante" during the 1953 Honolulu Yacht race, will be narrated by Ray Wallace, Publications, who was navigator for the trip. Film pictures before-race activities, race pictures, a Cook's tour around Honolulu with the crew, and the return trip to San Pedro.

Three-D color slides are of the Christmas trip to Ensenada aboard the 70-foot schooner "White Cloud".

Club commissioner Elmer Chiodo announces that 3D glasses will be available for some but advises those who have their own to bring them. All Norcrafters, families, and friends are invited.

Lens Prexy



NEWLY ELECTED NRC Camera Club commissioner, days, is George Fuller, Engineering Test Lab. Five-year Norcrafter, George hopes to expand club activities and extends welcome to new members.

Norcrafter Keglers Top City Meet

By Joe Cribbs
President
Northrop Recreation Club

Those bowlers representing Northrop in the Los Angeles City Tournament are doing us proud!

At the end of the first week of tournament play Norcrafters are leading in two events. John Kommers and Robert Pruess, both of Tool Planning, are holding first place spots in the Class B doubles events. Leading in the Class B team event is a Norcrafter team under the auspices of Hawthorne Bowl. Members include: Neal Elder, Materiel; Chuck Carson, Master Planning; Phil Reeder, Engineering Test Lab; Roger Gard, Electrical Lab; and Dick Rehers, guest.

★ ★ ★

New NRC Gem and Mineral Club starts its first meeting on Wednesday, March 24, at 7:30 p.m. This club will offer Norcrafters a chance to hunt, cut, and exhibit gems and minerals and to meet others with a similar hobby. Future plans include field trips, guest lecturers, and annual exhibits. Lapidaries, rockhounds, and prospectors each will find an interest in this new activity.

★ ★ ★

Footlight call has been answered by the NRC in the form of the new NRC Players Group. Each of us at one time has had a yen to try our hand at a thespian chore. Now the opportunity is within our grasp. Those who prefer the behind-the-scenes role will have ample chance to work at any of a number of jobs including make-up, stage direction, set designing, stage hands and many others. First production will be a three-act comedy farce titled, "Three Live Ghosts".

★ ★ ★

The Ballet Russe will soon have nothing on Northrop now that the ladies have formed the NRC Ballet Class. This club will concentrate on free-style ballet, sometimes known as modern dance. Donald Journeaux, a former Sadler-Wells choreographer, will direct the girls in all phases of the classical dance form. First class was held at NRC Clubhouse on March 18. Club will meet each Thursday at 8:00 p.m. and, best news of all, the fee is only 50c a lesson.

★ ★ ★

In addition to new clubs, we are happy to welcome several new commissioners to the NRC ranks. Congratulations go to: Ralph Schamp, Surf Fishing; Art Westermann, acting comish, Gem and Mineral; Doug Hugill, Sports Car Club; and Bill Deane, day shift Fishing Club.

THE Northrop Scene BY DAY AND NIGHT

Safe Driver Know-how

SUCCESS STORY—Harbor Junior College alumna, Dorothy Buckalew, Telegraph and Teletype, has been selected by her alma mater as an example of student training which paid off. Dorothy graduated from Harbor JC in February 1951 with a B-plus grade average in secretarial and office machine skills, which qualified her for the position at Northrop as telegraph and teletype operator which she has held for three years. Dorothy received local press notice.

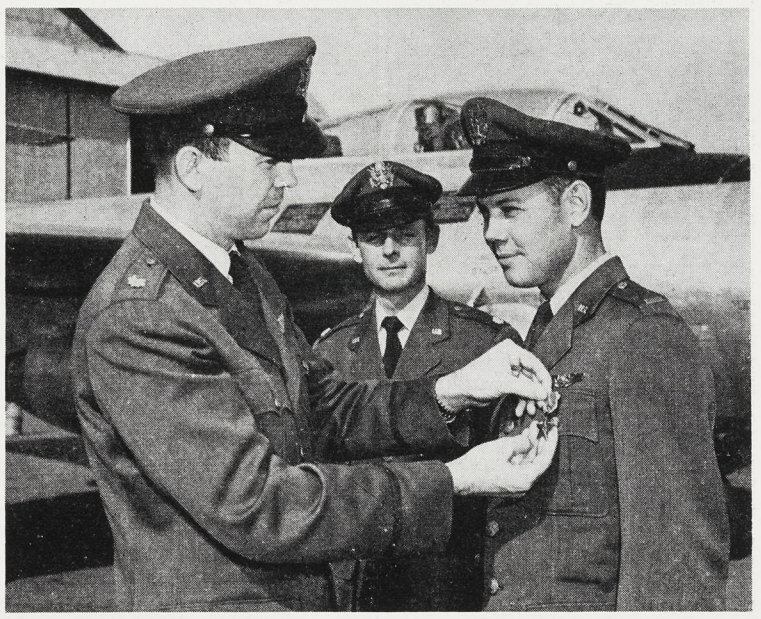
TWO DISTAFF members of Northrop's Transportation department are enrolled in truck driving classes being held at Washington High under auspices of Board of Education. They are shown in left center:—Peggy Park and Maybelle Blair, who find the school's sessions helpful. Training class is unique (see Northrop News, February 10), is staffed by top-notch instructors. Northrop Transportation and Industrial Training helped organize curriculum; all Norcrafter truck drivers are enrolled for the seven-session classes. Number of Norcrafters, including Traffic Manager Bill Zuetell, fourth from right, kneeling, are in first class photo.

It's Still Wintertime

DIG THAT BIRD!—It's Marv Bell, Hawthorne Flight Service, up in the air during NRC Ski Club Snow Valley trip.

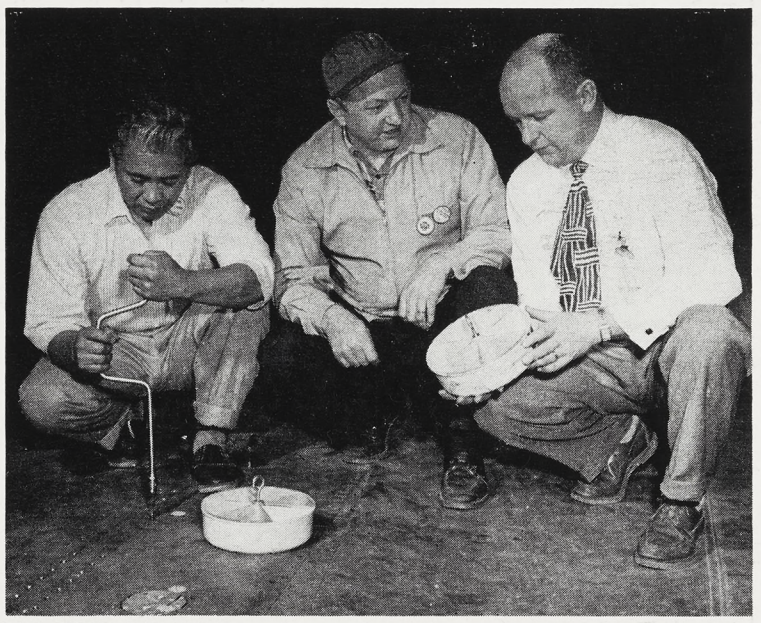
SUPER SLALOMERS—Pictured during recent trip to Snow Valley are some of the advanced class of the NRC Ski Club. From left: Barbara Clement, guest; Elmer Clement, guest; Fred Brown; Schedules and Change Control; Jean Hatcher, Military Relations; Marv Bell, Hawthorne Flight Service; Shirley Johnson, F-89 Final Assembly; Ken Waters, guest; Edyth Knott, guest. Ski Club member behind camera (both pictures) was Dick Knott, Assembly and Final Inspection.

VOLLEYBALL SQUAD of 433rd Fighter-Interceptor Squadron, Truax Field, is made up of Scorpion pilots and RO's. They lead Madison Industrial league, and athletic officer sending photo says their enthusiasm for volleyball "is surpassed only by that for the F-89 as a terrific airplane". Kneeling: squadron members Billingsley, Matera, Jones, and Mack. Standing: Knutzen, Smith, Minett, Bjostad, Applegate, Bakke. (For details see story on page 6).



FOR MERITORIOUS Korean war duty—First Lieutenant Gilbert R. Mozingo, USAF—Northrop-Ontario Air Force Scorpion radar acceptance officer—receives coveted honor (ceremony at Ontario International Airport) from Lieutenant Colonel Charles W. Tennant, Air Force plant representative. Major Robert Morrow, AFOIC, Northrop-Ontario, adds congratulations. The medal was presented to Lieutenant Mozingo by direction of the President of the United States.

Result: Cleaner Job



PLASTIC TRAYS, such as that shown in foreground, were introduced as part of Mat Con program to keep extraneous materials out of finished products and to make handling of rivets, screws, nuts easier. H. L. Ramos, Final Assembly, is installing close tolerance screws in fuel tank cover plate. Center is Ed Wedger, inspector; at right: Paul Sheeley, Final Assembly assistant foreman, discussing tray. Trays have been distributed to number of using departments.

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, April 7, 1954

Art, News Awards

(See Page 2)

NEW SCORPION CONTRACT

DELIVERIES THROUGH AUGUST, '56

Northrop has been awarded an additional contract for the production of F-89 Scorpions amounting to approximately 155 million dollars, General Oliver P. Echols announced on March 22.

Delivery of airplanes under the contract is scheduled to run through August, 1956, Norcrafters were advised.

In addition to an unspecified number of D-series and later-series Scorpions, the contract calls for the manufacture of spare parts, special tools, and ground handling equipment to complement the primary product.

Like all current major prodution contracts, the new one is "fixed-price", Contract Administration has explained, a type which offers the greatest challenge to the ingenuity of all personnel.

The new contract is properly called a "price redetermination" contract with incentive features. A target price has been estimated; should costs of production rise over that, only a limited amount will be reimbursed by the government. However, costs in excess of a certain ceiling are not reimbursed at all by the government.

Should costs under the newest contract fall below estimates, Northrop and the government will share in the savings; the contractor thus benefits by award of a much larger percentage of gain.

(In former contracts — cost plus fixed fee—the customer paid the actual cost of producing the airplane, plus a certain fixed sum. This latter fee remained the same even if costs were exceeded).

However, it is the long-range

(Continued on Page 3)

On Guard in the North

FIRST SCORPIONS to make operational flights across Arctic Circle were flown by 65th Fighter Interceptor Squadron, Alaskan Air Command, recently. Shown on return to Elmendorf AFB are crews who made historic flights, along with Norcrafter tech reps stationed there. Back: Tech Rep Don Brennan; Lieutenant Don Engel, RO; Lieutenant Jack Trabucco, pilot; Tech Rep Hank Waklee. Front: Major Martin Silver, pilot; Lieutenant Joe Chambliss, RO. Only previous crossings of Circle by Scorpion were made in cold weather tests before 65th was equipped with F-89s. Scorpions also went through paces recently at dedication ceremony which formally opened the new Fairbanks International Airport.

AF Visitors Readied For Tournament

Three distinguished visitors to the Northrop Edwards facility recently were given "post graduate" pointers on rocket firing with the F-89D Scorpion by pilot Sherman "Bill" Pruitt in preparation for an Air Force-wide rocket firing World's Championship meet to be held in Yuma June 21.

Visitors were Colonel Dean Davenport, commanding officer, 3550th Flying Training Group; Major Arthur C. Shepherd, commanding officer, 3553rd Flying Training Squadron; and Flight Lieutenant Duncan MacIver, Royal Air Force exchange officer attached to the 3553rd squadron, Moody AFB, Valdosta, Georgia.

All three scored targets on runs with the F-89. MacIver flew from Georgia in an Air Force F-89D with Northrop technical representative S. J. Peluso as radar operator.

MacIver's Scorpion was groomed for the forthcoming preliminaries to the Yuma championship meet. These will be held

(Continued on Page 3)

SAFETY CONGRESS PRAISES FOREMEN

JOHN B. CLARK IN KEY TALK

Keynote of the first Southern California Safety Congress held at the Ambassador Hotel, Los Angeles, March 29-31, was the important role played by the foreman and supervisor in relaying the "safety message" direct to the

JOHN B. CLARK

shop and thus preventing injury and even saving lives of the men working with him.

More than 100 Northrop foremen and supervisors from both day and night shifts attended the congress, where hundreds of representatives of various industries, both large and small, gathered to view informative displays of accident-prevention materials and equipment, and to hear leaders of industry speak.

John B. Clark, Northrop director of Industrial Relations, was

(Continued on Page 2)

U. S. Savings Bonds

YOUR BEST BET

Norcrafter Invents New Swage Tool

The answer to a long-felt need in the aircraft industry for a portable swaging tool may have been found by Norcrafter Nelson Harvey, Tool Liaison development section, with the invaluable assistance of a team of Tooling Norcrafters.

Harvey's development has been patented under the Northrop Patent Award Plan, and the manufacture of the new tool has been licensed by Associated Products department to Aircraft Tools, Inc., Inglewood, which is reported to be tooling up for production of the tool.

Before the pilot model was

(Continued on Page 8)

THANKS TO EDWARDS CREW are offered by Flight Lieutenant Duncan MacIver, Royal Air Force exchange officer, attached to 3553rd Flying Training Squadron, Moody Air Force Base, Valdosta, Georgia. Above men groomed Air Force F-89 for rocket firing tournament scheduled at Yuma, Arizona, in June. MacIver, who bagged two targets during Edwards training period (see plaid targets on ship), gives farewell handshake to Bob Reeves, control engineer (center), before flying to home base with S. J. Peluso, Northrop tech rep (on ladder). Others are, from left, standing: Lofton Massey, Flight Service; Pilot Sherman "Bill" Pruitt; Pilot D. W. Wallis; D. W. Steinhelper, Flight Inspection. Kneeling: George Fels, crew chief of airplane; and Orvil E. Martin, Flight Serive.

BLUE RIBBONS WON BY NEWS, ARTISTS

STORIES, ART OUTSTANDING

The month of March was distinguished by a substantial number of awards to various Northrop departments for outstanding achievements in several fields.

Articles and art work appearing in the Northrop News drew three separate awards and blue ribbon certificates were won by artists of the Art Services department.

Color cover of the Northrop News Palmdale issue brought laurels to both the News and Art Services. The outstanding color drawing was painted by Ray Wallace.

Other Art Services department awards were for drawings in the Northrop Flight Handbook made by Ray Rich and Lathayne Peterson; Parts catalogue line drawings, Donna Boyd and C. W. Barr; Winifred Root, Training Aids drawings; Donna Dutton and Ed Root, Electronic Diagram line drawings.

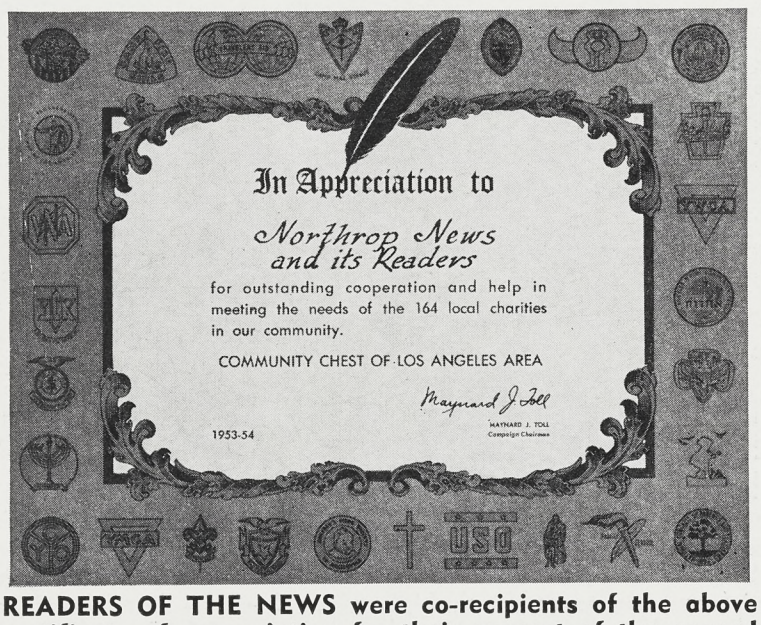
The blue ribbon certificates were awarded at the Technical Illustrators Management Association's first annual exhibit held at Duncan Vail, 637 South Olive Street, Los Angeles. Art work in many categories was submitted by manufacturers throughout Southern California. The display was open to the public.

Northrop News story on "Give Safety a Hand" was given the first award of its kind ever granted by the Greater Los Angeles Safety Council at the Ambassador hotel theater, on March 30. The plaque bears the legend, "Outstanding Achievement of 1953".

Another award was a certificate of appreciation to the Northrop News and its readers "for outstanding cooperation and help in meeting the needs of the 164 local charities" in the Los Angeles area. This "Red Feather" award was given by the Community Chest of Los Angeles.

AWARDS bring congratulations to winners from Paul Browne, general supervisor, Service Publications, second from left, and Harold Pershing, supervisor, Art Services department. Winners, from left: Fred Ghreke, group leader, pilot's manual (holding flight handbook art award); Donna Boyd, who, with C. W. Barr, won in parts catalogue line drawings; Ray Wallace, color drawing in Northrop News Palmdale issue; Winifred Root, training aids art; Donna Dutton and Ed Root, electronic diagram line drawings. Certificates were awarded by Technical Illustrators Management Association at first annual exhibit held in Los Angeles for the public recently. (See story, left, for full details.)

FIRST ANNUAL AWARD of its kind—Outstanding Achievement—ever given to an industrial publication by Greater Los Angeles Chapter, National Safety Council, is presented to Northrop News. Receiving the award on stage, Ambassador Hotel, are, from left: Charles Bradford, editor; Lee Johnson, safety engineer; and Ray Wenger, general supervisor, Conservation. Award was for "Give Safety a Hand", a pictorial spread on highway courtesy and good manners.



READERS OF THE NEWS were co-recipients of the above certificate of appreciation for their support of the annual Community Chest "Red Feather" drive for local charities. Norcrafters got behind the campaign to raise money for the 164 worthy causes the Chest supports with usual good will.

Study May Result In Weight Loss

Weight of future Northrop airplanes will be pared considerably if intensive investigations now being carried out by Producibility Engineering prove feasible, according to John Van Hamersveld, supervisor.

Electronic devices will be condensed in size, and simplification of electronic circuitry will aid in making the devices more compact, Van Hamersveld states.

Weight factor investigation shows that fasteners, T-bolt clamps, hydraulic tubing, fittings, and forgings made of titanium metal can conceivably be used in future airplanes with a weight saving of 40 per cent.

Steel components of this type on the F-89 airplane weigh in the neighborhood of 1250 pounds. Thus, titanium substitution could result in a weight loss of 500 pounds per ship.

So far the investigation has concentrated on titanium fasteners interchangeable with presently-used steel fasteners. These will be exhaustively lab tested when offerings of various manufacturers are received.

Known advantages of the titanium metal, beyond the weight factor, are corrosion resistance, in many cases greater than stainless steel, and heat resistance — a necessary pre-requisite of craft designed to be flown faster than Mach 1.

Meanwhile, a study of compact modular units such as were pictured in the Bureau of Aeronautics film, "Project Tinker Toy", in recent showings at the Hawthorne plant, is being carried out by "Larry" Carey, electronics consultant in Van Hamersveld's department.

Carey recently returned from Boeing, Seattle, where he studied printed electronic circuit developments. This method of simplifying and condensing electronics circuitry is also being considered by Producibility Engineering for future use.

Cagers, Keglers Share Limelight at Ontario

"Buck" Muir, following his recent appointment as Ontario Personnel Activities and Services representative, tells that the top conversation until recently has been the collection of Northrop basketball scalps worn at the belts of Ontario hoopsters, who succeeded in defeating every one of the facility teams which answered the Ontario challenge to battle.

Ontario keglers have also been taking bows. Stepping up to bowl in the highly competitive Annual Citrus Belt bowling tournament and taking third high series with a score of 3055 were Ted Hand, Empennage Assembly; Norm Jacobson, Radar; Si Sicosky, Manufacturing Control; and Dick Sloan and Bruce Nicholson, both of Production Flight Service.

New scene on the facility grounds is the archery set-up, complete with target and equipment, presided over by Archery Commissioner Bill Maney.

In step with the growing swell of Ontario recreation activity and following Buck Muir's accession to the PA&S post, Hank Abramowicz (see photo and caption, page 4) has taken over as popular new Ontario Recreation Club vice-president.

BUCK MUIR

Safety

(Continued from Page 1)

one of the key speakers at the conference. His address, on Tuesday, March 30, was entitled "Human Relations and Safety".

In speaking of the fine work done by foremen and other supervisory officials Clark stated:

"These are front line members of management upon whose shoulders rests the direct responsibility of putting a safety program to work out in the shop. And that is where it counts. . . . the shop is front-line in the battle against industrial injury."

At the conclusion of Clark's speech the Northrop News was awarded an NSC plaque for "Outstanding Achievement of 1953" (see story. this page).

Similar recognition had been given the News at the March meeting of the Southern California Industrial Editors.

The presentation was made by Max Koffman, vice-president for Industrial Safety, Greater Los Angeles Safety Council, and by J. M. Kaplan, manager of the Council, at the editors' affair.

Kaplan was responsible for arranging the three-day congress which headlined supervisory participation.

Northrop News

Vol. 12 Northrop Field, Hawthorne, Calif. No. 18

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INDUSTRIAL RELATIONS DIVISION, NORTHROP AIRCRAFT, INC.
JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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Greater Skill, Safety

SAFETY PRACTICE is a prime phase of the assembly and riveting course under way in the empennage assembly hangar at Ontario flight facility. Here Henry Solak, left, Industrial Training instructor, who set up course (see story), confers with Ken Selvidge, safety man on assignment two days per week from Hawthorne, about drilling operation by Giles Pettit. Pettit's wearing of goggles is a must of good safety practice carried on by all Northrop folk.

FLASHLIGHT CHECK of NACA rivet countersinks, as shown here on the work of Mattie Washington, center, by Henry Solak, left, is just one phase of thorough course in fundamentals of assembly and riveting under way at Ontario. Other Norcrafters shown in foreground—now "alums" of that first week's course—are (facing from right and with safety goggles), Ardle Dorse Larson; front, Juanita Amason.

Ontario Extends Training Of Assembly Norcrafters

The basic assembly and riveting course under way in the empennage assembly hangar of Ontario flight facility, launched in late February to broaden that Scorpion center's already booming Industrial Training program has produced such favorable results that the initial three weeks duration plan has been extended to four months, or perhaps more.

Designed to help Ontario Norcrafters reduce "squawks" in the assembly and riveting of Scorpion empennages the course covers such basics as reading scales, drilling out rivets, drilling straight, countersinking (flush and NACA), riveting, and the importance of safety and good housekeeping.

Classes run 40 hours per week, both shifts.

As explained by Norm LeMaire, Ontario Industrial Training coordinator and Personnel interviewer, the assembly and riveting course was initially set up by Henry Solak, Hawthorne Industrial Administration. Henry, better known as "Hank", taught for the first three weeks, turning further classes over to the capable instruction of day and night shift assembly Leadmen Stephen Douglas and Ralph Snow. Douglas and Snow have been assigned to Ontario Industrial Training for duration of the course.

Further innovation by Ontario, where Norcrafter population has been growing by leaps and bounds, has been to adapt the course as check-point for all new assembly hires.

Graduates? Too many to list. but here are the first 18 Ontario Norcrafters alumni of the course—Ardle Dorse Larson, Rose Howeth, Dorothy Myers, Dollie Dean, Juanita Amason, Cecilia Murdock, Robert Gordon, Paul Capps, Marie Dahlgren, Mattie Washington, John Tenmann, Giles Pettit, Lottie Ruth, John Denton, Frank Adams, Edgar Young, Redford Blevins, and Ruth Bills.

Contract

(Continued from Page 1)

benefit to be gained, top personnel explain, which concerns Norcrafters—assurance that by becoming an efficient production team the company is better able to hold its own in competitive bidding with the rest of the industry.

The importance of increased efficiency lays added emphasis on programs already in existence at the plants, such as the Suggestion Award and Patent Award Plans and the Safety-Conservation program, as well as individual efforts made by technical personnel in line of duty.

The first fixed-price contract airplane—scheduled as the result of a previous contract—flew from Northrop Field on February 3. (Northrop News, February 24, 1954).

The initial flight, made ahead of schedule, highlighted the teamwork which had gone into the manufacture of the airplane, and which made the flight possible ahead of schedule.

News of the newest contract came soon after Norcrafters learned that Scorpions were now manning the outer perimeters of national defense in Alaska.

And only a few weeks ago was it announced that the first of a number of F-89s were being sent to fields in Minneapolis and Sault Ste. Marie, Michigan, to guard the approaches to the vast central industrial heart of America.

Rocket Race

(Continued from Page 1)

at Tyndall AFB, Panama City, Florida, May 3.

MacIver expressed his pleasure at the manner in which Edwards crews readied his airplane and was amused by two plaid targets they had painted on the nose of the ship to commemorate his twin "kills" made on St. Patrick's day.

With typical Scotsman's humor the Royal Air Force pilot eyed the improvised plaid and stated: "This must be the Angus MacNorthrop tartan—what?"

All of the visitors expressed determination to see the hard hitting Scorpion through to the championship at the forthcoming preliminaries and the big June meet, at which all types of rocket firing airplanes will compete.

Down . . . . . Range

Two huge ravens are twosing under the water tower at Edwards facility and stealing portable items such as small electronic devices; cable assemblies; tools; and other shiny objects for their huge nest—watch Northrop News for pictures of young ravens (who will be tamed and taught to talk by Edwardsites), and inventory of hi-jacked items found in nest.

An all time Air Force-wide Northrop Scorpion utilization record of 809 flying hours was chalked up at Truax Field, Madison, Wisconsin, last month by the 433rd Fighter-Interceptor Squadron of the 520th Air Defense Group—squadron hopes to break record again this month.

Hardest shot in bowling was made recently by Frank Harrison, Edwards Flight Service crew chief, of the "Sub Soilers" tournament team, when he picked up a 7-10 split (two back corner pins), with an "off the cushion" shot—winning himself a coveted American Bowling Congress shoulder patch.

R. H. "Dick" Watts, jr., new Military Relations pilot, until recently Air Force major with Inspector General's office, Norton Air Base, San Bernardino, has assumed duties with Bob Love in OPINDOC missions . . . OPINDOC is official designation for Military Relations Operational Indoctrination section, set up to ease transfer of Scorpion from Northrop to AF pilots.

PERSONNEL ACTIVITIES, SERVICES ANNOUNCES HAWAII VACATION PLAN

Personnel Activities and Services has announced that as part of its vacation planning program a ten-day Honolulu air cruise, especially designed for Norcrafters and their families, is now available.

This cruise consists of a round-trip via United Airlines or Pan American, a flower lei greeting in Honolulu, transfers upon arrival and departure, hotel room for 8 nights, a 100-mile circle island tour, a city tour, luncheon at the "Hawaii Calls" broadcast in the Moana Hotel, and a genuine Hawaiian luau.

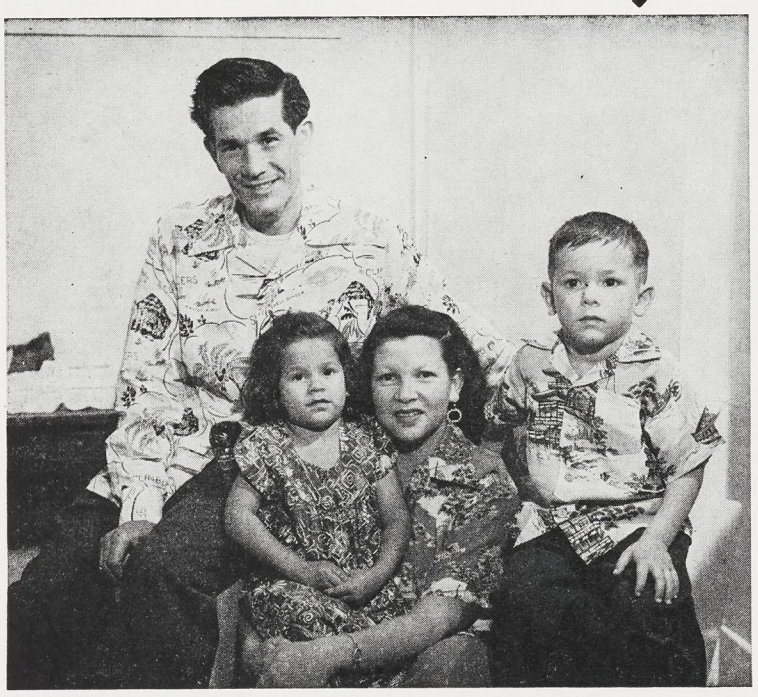
Brochures regarding this cruise can be secured at PA&S offices at Plants I and III, or from PA&S representatives.

Howdy Podner!

WELCOME TO THE VALLEY handshake given Bill Renison, Palmdale Operational Services chief (right), by Bob Rolfe, base administrator, Northrop Edwards facility, marks beginning of "Good Time Table" for both Edwards and Palmdale Norcrafters. Occasion was dinner and dance staged by Edwards folk for newly arrived at Palmdale. Affair hosted 300.

DOOR PRIZE WINNERS at recent get-acquainted party given Palmdale Norcrafters by Edwards "Old Timers" at Valley Room, March 20, are, from left: Fairley Stalnaker, Flight Service, Edwards (deep fryer); W. D. Martin, Flight Service, Edwards (radio); and Harold Smith, Transportation, Palmdale (coffee maker). Louve McCabe, Flight Service, Edwards, center, and Bob Reeves, control engineer, headed Edwards entertainment committee manned by Ralph Friesen, assistant base administrator; Bob Bradford, Industrial Relations; Lou Baker, NRC vice-president; and Joyce Orr, Experimental Flight Test.

From Far Hawaii Comes Entire Oliveira Family



OLIVEIRA FAMILY reversed usual trend of going west, went east—to California from Hawaii. Eddie, stock clerk at Lynwood, is at left; seated are his wife Evelyn and daughter Paula; and, at right, son Damien. Three are wearing colorful shirts from Hawaii; Paula wears mumu, loose dress favored by small girls in Islands. It was first trip for mother and children; Eddie was in California during World War II.

The lure of California to easterners is well-known. But it has fascination, too, for people farther west.

Take the case of Eddie Oliveira.

Eddie was born and raised in Hana, Maui . . . in the Hawaiian Islands. During World War II he served in the Air Force, and in that tour of duty became acquainted with California.

That was for him, Eddie decided. (And he added emphasis to the decision after he'd returned from a bomber test program in Alaska, where the thermometer slid to 43 below!)

"Anything that has to do with airplanes—that's for me!" says Eddie, so he sought an aircraft plant. A brother working for Pacific Electric told him of Northrop.

"That's a good place, my brother told me," Eddie went on. "So I haunted the employment office until they gave me a job!"

Eddie is at Lynwood now, as a stock clerk in GFP . . . and liking every minute of it.

"You can say that's a fine bunch of fellows over there," he told the reporter. "One of the guys I work with is an old-timer with Northrop. Maybe you know him—Roy McCullough."

With the job in hand, Eddie moved to bring his family to California; and late in February he hustled to International Airport to greet Evelyn—his wife—and Paula, 3, and Damien, 4. (The latter is named after famed Father Damien.) They're living now just west of Vermont on West 38th Street.

"And how do you like working at Northrop?" the reporter asked.

There was only a slight pause for thought . . . Then Eddie spoke:

"Mister, I intend to retire from Northrop! If they keep me that long!"

Florida Management Club Elects Zimmer As Veep

Northrop Patrick facility Management Club has held its annual election and appointed chairmen to customary committees.

H. J. Zimmer was selected to head the club as vice-president and second vice-prexy will be R. M. Warner.

Scribe of the organization will be M. H. Lafferty who was chosen secretary.

Money matters of the club will be handled by Treasurer W. H. Anderson.

J. E. Ralston will take up the mace as sergeant at arms.

The five important committee chairmanships will be filled by A. H. Anderson, Programs; J. W. Oed, Membership; H. L. Johnson, Publicity; E. H. Munsey, Education; and D. R. McVicker, Tickets.

The election and appointments closely followed installation of Management Club officers at Hawthorne, with the Florida installation to be staged at an early date.

REMODELING JOB COMPLETED AT EDWARDS BASE

Northrop Edwards facility has been completely revamped during recent weeks in keeping with interior arrangements of the Hawthorne plant.

The new arrangements in the office building offers more privacy than formerly and is more pleasing to the eye. Conventional Northrop color scheme has been used throughout. Each department has separate quarters for its own work and distractions of one large office and attendant noises have been eliminated by the change.

Another feature is the well equipped pilots' ready room and locker facilities at the end of the new storage facility, which now houses all supplies needed at the base under one roof.

The STORK CLUB

Tambini Daughter

Al Tambini (Missile Insp.) and wife Rose (formerly of Ditto Services) are the proud parents of first daughter, Debra Lynn. The little girl arrived on February 8 at 10:12 a.m. in Centinela Hospital. She weighed 6 pounds, 12 ounces.

Five Pound Shilling

Proud parents Donald Shilling, Missile Sub-assembly — nights, and wife Barbara announce the birth of daughter Virginia Michelle. Virginia weighed 5 pounds 13 ounces when she arrived at Centinela hospital on 16 February at 7:00 a.m. Fourth member of the Shilling family is Pattie, age 5½.

New Edwardian

William W. Raikes, Edwards AF Base Flight Test, and wife Evelyn proudly announce the arrival of son Robert Elwin. The new addition arrived on 27 February at St. John's hospital in Santa Monica and he weighed 8 pounds 3 ounces. Robert Elwin is the sixth child for the Raikes'.

Wee Williams

Bill Williams, Fabrication and Tooling Inspection, and wife Cassie, formerly of Materiel, happily announce the birth of daughter Stephanie Lynn. Little Stephanie was born at St. Francis hospital on 14 February at 5:56 p.m. She weighed 7 pounds 2 ounces. Other Williamses include sister Leslie, 16 months, grandmother Laura Williams, Process Paint and Upholstery, and grandfather Charles Williams, Missile Installation.

Harbert Heir

Wayne A. Harbert, Cost Estimating, and wife Drudy proudly announce birth of son Paul Henry. Paul was born in Centinela Community hospital on 6 February at 11:52 a.m. He weighed 8 pounds 13 ounces. Drucilla Marie, age 1, and Allan, age 4½, were on hand to welcome their little brother home.

Baby Robin

John H. Morecraft, Missile Guidance, and wife Ann are the proud parents of son Robin John. The little one arrived in Glendale Physicians and Surgeons hospital at 6:23 a.m. on 16 February. He weighed 6 pounds 8 ounces. The Morecrafts also have a son E. Paul, age 15, and a daughter Susan Ann, age 13.

Johnson Joy

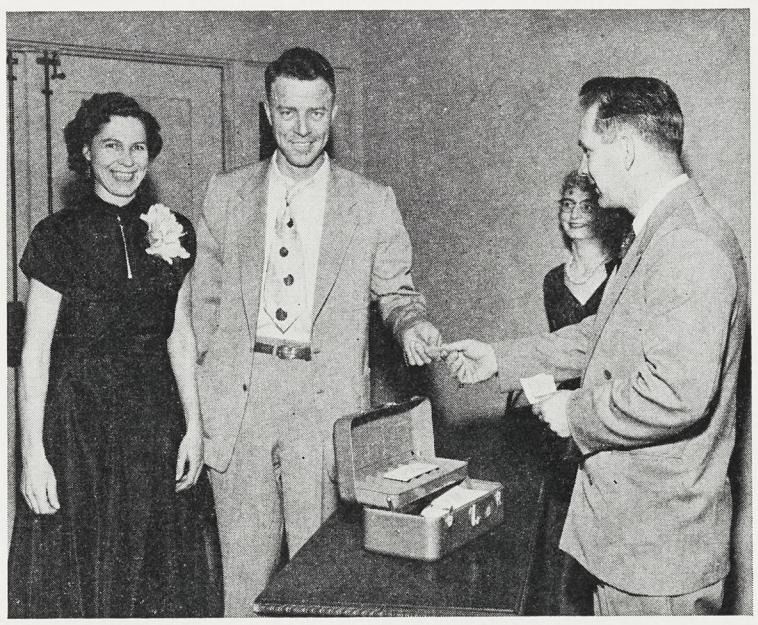
Happy parents of son Richard Lee are Richard Johnson, Plastic Shop, and wife Opal. Little Richard arrived at Torrance Memorial hospital on 17 February at 10:17 p.m. weighing 8 pounds 2 ounces. Sisters Cheryl, age 5, and Sheila, age 3, were on hand to celebrate his arrival.

Florida Arrival

Salvatore X. Xifo, Engineering Test, Patrick, and wife Lindsey Margaret are the proud parents of Gina Maria. The little girl was born at Brevard Hospital in Melbourne, Florida, at 10:30 p.m. on 16 February 1954. She weighed 7 pounds 15 ounces. Brothers George Martin, age 5, and Peter Gordon, age 3½, and sister Mary Margaret, age 2, welcomed their new sister home.

Ontario NRC Festivities

ONTARIO NRC CHIEF—When combination NRC vice president inaugural dinner and St. Patrick's Day dance was held for Ontario Norcrafters at Pomona Valley Country Club March 20, Henry Abramowicz, better known as "Hank", right, shook with Barry Smith, just after Barry had been awarded appreciation plaque by Charles Boyle for past year's job very well done. Hank is the new NRC veep.



PICKING UP tickets on way into St. Patrick's Day dance (held immediately after installation of Hank Abramowicz as new NRC vice-president for Ontario), these Norcrafters ready themselves for night of activity. Left: Irene and Walter Hermann, Empennage Assembly; and right: Mr. and Mrs. Sam Walston, jr., facility Production Flight Service.

Edwards Norcrafters In Desert Search for U Ore

Uncle Sam's need of uranium and other fissionable materials will be somewhat lessened if the serious efforts of a handful of Edwards Norcrafters during week-ends is successful.

Dean of uranium hunters at Edwards is Otto Wismer, Flight Test, nights, who has a considerable library on geological subjects, which he loans to other part-time prospectors.

Wismer has a claim in the general vicinity of Mirage Dry Lake which has become a puzzle to geologists. Center of the claim, ten feet wide and forty feet long, develops a Geiger count of 300 above background count. (Background count is 39 in that area.)

At a depth of five feet ore was removed and showed no radiation when taken away from the vicinity of the claim. This is strange, as all rock is contaminated when exposed for any length of time to radiation. Conjectures are many as to what will result when Otto dynamites his way down to the parent ore causing the high Geiger clatter.

M. M. Grossi, Flight Service, days, has three claims near the old Silver Queen mine close to the town of Mojave. An adjacent claim has been in operation for some months under government supervision. Tests have shown Grossi's claim promising.

Douglas P. Hart, Experimental Flight Test, days; Bob Winiger, Flight Service, days; and Michael Bravo, Flight Test, nights, are also manning Geiger counters in spare hours.

An aid to their searches is the scintillator and black light owned by Al Baer, Liaison Engineering, days. The scintillator reacts in a similar manner to the Geiger counter but is a more sensitive instrument. The black light is used in detecting fluorescent materials.

Baer himself does his prospecting by jeep.

AT PERSONNEL ACTIVITIES

MAGAZINE SUBSCRIPTIONS at special discount rates for any periodical published.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 2)
MARENGO and HOLLY, Pasadena. E. ZANN (5222-338, Ext. 1918), SY 3-3131. 12-2

(Zone 3)
VERMONT & CENTURY, Los Angeles. HARRY ROCHETTE (5585-89, Ext. 1576). (12-3)

GARFIELD and RIGGIN, Monterey Park. Interested in car pool. F. F. CROWE (5544-136, Ext. 2645) PArkview 8-4325. 12-3

(Zone 4)
FIGUEROA ST. & IMPERIAL HWY. (Will pick up riders along Imperial), Los Angeles. TED HILL (5503-734, Ext. 492). (12-4)

(Zone 5)
IMPERIAL and POMONA, Brea. GEORGE L. CAMERON (5524-341, Ext. 2209). 12-5

ATLANTIC BLVD. and CARLIN or Rosecrans, Compton. R. W. BUTT (5231-30, Ext. 1494). NEwmark 2-0938). 12-5

AVALON & EL SEGUNDO, Los Angeles. MAGGIE H. SMITH (5544-96, Ext. 2645), PL. 6-5209. (12-5)

DEL AMO & DOWNEY, Lakewood. A. COTKIN (5587-399, Ext. 1973), Long Beach 394-518. (12-5)

(Zone 6)
OLIVE and WILMINGTON, Compton. Wilmington, Rosecrans to Crenshaw. D. E. RICHIE (7420-32, Ext. 2636). 12-6

(Zone 10)
PIER AVE and GOODMAN AVE., Redondo Beach. (Interested in entering or forming car pool). GEORGE E. TOMLINSON (6382-25, Ext. 723). FRontier 9-2756. 12-10

AVIATION BLVD. & REDONDO BEACH BLVD., Manhattan Beach. GEORGE TIMER (5222, Ext. 1919). (12-10)

AVIATION BLVD. & REDONDO BEACH BLVD., Manhattan Beach. MARY HURD (5507, Ext. 526 or 564). (12-10)

(Zone 12)
BROOK & LINCOLN BLVD. (Will take anywhere in Venice or pick-up along Lincoln Blvd.), Venice. NORMAN RENARD (7210-71, Ext. 508). (12-12)

(Zone 14)
GOWER & HOLLYWOOD, Hollywood. DAVID O. CARTER (5503-74, Ext. 2432), HO. 2-9050. (12-14)

CRENSHAW & SANTA BARBARA. (Crenshaw, West Blvd., Prairie Ave. to Plant), Los Angeles. FRANK KLINE (5586-14, Ext. 483), AX. 3-8963. (12-14)

7:30 a.m. — 4:15 p.m.

(Zone 1)
FOUNTAIN & WESTERN. (Western, Wilshire, Crenshaw), Hollywood. MILO RECKOW (3148-84, Ext. 495), OL. 1965. (13-1)

(Zone 4)
HIGHWAY 101 & IMPERIAL or Central Ave. (Interested in car pool), La Habra. JOE B. MILLET (5970-21, Ext. 2161). (13-4)

(Zone 5)
HIGHWAY #35 and GARDEN GROVE, Westminster. Will meet either at Garden Grove, Westminster or Barber City. A. P. KIOLBASSA (5910-701, Ext. 2498). Westminster 7761. 13-5

(Zone 8)
REDONDO & CRENSHAW. (Share car pool), Gardena. KATHLEEN EMGE (9320-37, Ext. 2151), MEnlo 9-2519). (13-8)

(Zone 10)
STRAND & ROSECRANS. (Interested in car pool), Manhattan Beach. T. A. HARRINGTON (5141-14, Ext. 514). (13-10)

(Zone 11)
GRAND and MAIN, El Segundo. SHIRLEY HALL (3350-822, Ext. 2781), El Segundo 473 W. 13-11

(Zone 12)
SUNSET and VIA DE LA PAZ, Pacific Palisades. R. S. DOLL (5141-3, Ext. 514). EX 4-5665. 13-12

WILSHIRE & OCEAN AVE., Santa Monica. F. R. STOLZ (3140-704, Ext. 1780), Ex. 4-9290. (13-12)

(Zone 13)
SEPULVEDA & VENTURA or Sherman Way, Reseda. WALLY ROBINSON (5920-115, Ext. 2612 or 2613), DIckens 3-9863. (13-13)

PARTHENIA & BALBOA. (Interested in car pool), Northridge. JOHN JURIST (3410-91, Ext. 1816), DI. 2-0017. (13-13)

(Zone 14)
STOCKER & LEIMERT, Los Angeles. BARBARA BENZ (5126-54, Ext. 2369). (13-14)

RIDES OFFERED

7:30 a.m. — 4:15 p.m.

(Zone 14)
LA BREA & 61ST STREET. (Travel La Brea to Hawthorne Blvd. or Hyde Park to Crenshaw), Los Angeles. VICTOR H. CARTER (3510-301, Ext. 2140), AX. 2-1448. (13-14)

ALVISO and 60TH, Los Angeles. EDWIN M. SKINNER (3510-29, Ext. 567), AX. 1-3882. 13-14

3:45 p.m. — 12:15 a.m.

(Zone 12)
LINCOLN & WASHINGTON BLVD. (Interested in car pool), Venice. WALTER J. FREAUF (5501-461, Ext. 2200), EX. 9-9839. (16-12)

4:45 p.m. — 1:15 a.m.

(Zone 1)
VERMONT & 29TH ST., Los Angeles. WM. C. DAVIDSON (5504-404, Ext. 1424), REpublic 3-4536. (18-1)

UNION & 7TH. (Route: Union to Santa Barbara to Crenshaw), Los Angeles. E. L. HOM (5587-665, Ext. 1947), DU. 2-0814. (18-1)

(Zone 4)
ATLANTIC & FIRESTONE. (Route: Atlantic, Firestone, Crenshaw to Plant), Bell. JOHN S. FULMER (5577-202, Ext. 1947). (18-4)

ORANGETHORPE & WOODS. (Interested in car pool), Fullerton. EUGENE J. SNELLER (5587-414, Ext. 1947). (18-5)

ROSECRANS & SAN ANTONIO, Compton. EDWARD TRANTHAM (5517-288, Ext. 527), NE. 5-5018. (18-5)

(Zone 6)
SANTA FE & 101 HIGHWAY. (Route: Santa Fe, Artesia, Alameda, El Segundo to Plant), Long Beach. DANIEL BROWN (5544-452, Ext. 2645), Long Beach 356-486. (18-6)

(Zone 7)
VERMONT & 182ND, Gardena. GRACE HAZLETT (4100-223, Ext. 2331). (18-7)

(Zone 8)
CRENSHAW & 190TH. (Room for three people—will pick up anyone between 190th and the plant), Torrance. CLAYTON C. ADAMS (5508-461, Ext. 2780). (18-8)

(Zone 13)
SEPULVEDA BLVD. & SHERMAN WAY, Van Nuys. WILLIAM G. HAIPT (5587-805, Ext. 1973), ST. 6-8353. (18-13)

RESEDA & VENTURA, Reseda. DARLENE THOMPSON (5508-426, Ext. 2230), DI. 3-7395. (18-13)

VENTURA BLVD. & MELVIN AVE. (Leave Melvin and Ventura 3:15. Via Ventura Blvd. to Sepulveda, Centinela, Freeman, Imperial, Hawthorne Blvd., Broadway to Plant), Tarzana. H. P. MOLLER (5503-662, Ext. 2416), DI. 2-5864. (18-13)

SEPULVEDA & JEFFERSON. (Fremont, Century, Prairie), Culver City. GERTRUDE SOLIE (5507-229, Ext. 526), VE. 9-6069. (18-13)

SANTA MONICA BLVD. & VETERAN AVE. (Follow Sepulveda Blvd. to Centinela and Prairie), West Los Angeles. BERNARD BARTON (7210-250, Ext. 2206), AR. 7-1539. (18-13)

(Zone 14)
ROSE & JEFFRIES, Burbank. D. B. ANDERSON (7310-447, Ext. 2227), TH. 6-8576. (18-14)

Rides Wanted

7:00 a.m. — 3:45 p.m.

(Zone 1)
VERMONT & SANTA BARBARA or EXPOSITION, Los Angeles. ROBERT BARRON (6335-29, Ext. 2063). 2-1

ARLINGTON and WASHINGTON BLVD. Los Angeles 19. RENE ORTIZ (5587-161, Ext. 1973) RE 2-8096. 2-1

OLYMPIC & FIGUEROA or Union, Los Angeles. EDWARD TENNANT (5584-748, Ext. 1381), DU 4-8176. (2-1)

(Zone 2)
MARENGO and HOLLY, Pasadena. E. ZANN (5222-338, Ext. 1918), SY 3-3131. 2-2

(Zone 3)
GARFIELD and RIGGIN, Monterey Park. (Interested in car pool). F. F. CROWE (5544-136, Ext. 2645) PArkview 8-4325. 2-3

RIDES WANTED

7:00 a.m. — 3:45 p.m.

(Zone 3)
PRAIRIE AVE. and 104 ST., Lennox. J. BRANT (5503-79, Ext. 492), OR 7-2848. 2-3

FORD BLVD. & 3RD, Los Angeles. PEDRO AGUERO, JR. (5503-63, Ext. 2681), AN. 9-6675. (2-3)

(Zone 4)
IMPERIAL HWY. & FIGUEROA, Los Angeles. CECILIA M. SULLIVAN (5503-54, Ext. 2681), PL. 6-4458. (2-4)

(Zone 5)
IMPERIAL and POMONA, Brea. GEORGE L. CAMERON (5524-341, Ext. 2209). 2-5

ATLANTIC BLVD. and CARLIN or Rosecrans, Compton. R. W. BUTT (5231-30, Ext. 1494). NEwmark 2-0938. 2-5

LAKEWOOD and CENTER, Paramount. ARTHUR J. MARTIN (5508-323, Ext. 2230) 2-5

CALDWELL & WILMINGTON, Compton. AL LUCKEY (6355-93, Ext. 1611 (1)), NE. 5-0984. (2-5)

(Zone 6)
OLIVE and WILMINGTON, Compton. Wilmington, Rosecrans to Crenshaw. D. E. RICHIE (7420-32, Ext. 2636). 2-6

VERMONT & 164TH ST., Gardena. CLAUDE E. BROWN (5501-91, Ext. 2200), FE. 9-2209. (2-6)

(Zone 7)
BANNING PARK and HWY. 101, Wilmington. J. W. CATLETT (5584-188, Ext. 1382). 2-7

(Zone 9)
HAWTHORNE BLVD. and 168TH ST., Lawndale. HAROLD L. YELLOW BIRD 5544-93, Ext. 2645). 2-9

PRAIRIE and 171ST ST., Torrance. JOHN M. SLACK (5232-35, Ext. 1882), ME 9-3900. 2-9

(Zone 10)
PIER AVE. and GOODMAN AVE., Redondo Beach. Interested in entering or forming car pool. GEORGE E. TOMLINSON (6382-25, Ext. 723), FRontier 9-2756. 2-10

HIGHLAND AVE. and 9TH ST., Manhattan Beach. HARPER ROISMAN (5353-94, Ext. 1385). FR 4-1690. 2-10

AVIATION and MANHATTAN BEACH BLVD., Manhattan Beach. SYLVIA L. MITCHELL (5524-365, Ext. 2209), FRontier 4-7069. 2-10

(Zone 13)
HAVENHURST and SHERMAN WAY. Van Nuys. HAROLD DAVIS (5524, Ext. 2209), ST 6-1183. 2-13

CENTINELA and LA BREA or La Tijera, Inglewood. ED BOOTS (5373-66, Ext. 1243), OR 1-3822, Lynwood. 2-13

7:30 a.m. — 4:15 p.m.

(Zone 2)
HOOVER & SANTA BARBARA, Los Angeles. JANICE S. MILEWSKI (USAF, Ext. 1936 or 1907), PRospect 4598. (3-2)

IMPERIAL & CRENSHAW, Inglewood. GEORGIA SIGURDSON (3230-834, Ext. 2395). (3-2)

(Zone 4)
HIGHWAY 101 & IMPERIAL or Central Ave. (Interested in car pool), La Habra. JOE B. MILLET (5970-21, Ext. 2161). (3-4)

(Zone 5)
HIGHWAY #35 and GARDEN GROVE, Westminster. Will meet either at Garden Grove, Westminster or Barber City. A. P. KIOLBASSA (5910-701, Ext. 2498). Westminster 7761. 3-5

(Zone 8)
CRENSHAW and 190TH ST., Torrance. Want to join car pool. B. P. BRADY (3460-85, Ext. 2188). 3-8

WESTERN and TORRANCE, Torrance. BARBARA GOODWIN (4240-17, Ext. 777) FAirfax 8-6061. 3-8

REDONDO & CRENSHAW. (Share car pool), Gardena. KATHLEEN EMGE (9320-37, Ext. 2151), MEnlo 9-2519). (3-8)

(Zone 9)
HAWTHORNE BLVD. and 166TH ST., Lawndale. NANCY WHITAKER (3530-819. Ext. 1927). 3-9

(Zone 10)
HERMOSA AVE. and 8TH ST., Hermosa Beach. SALLY HARE (3350-150, Ext. 778). 3-10

HAWTHORNE and 136th or Inglewood and 136th, Hawthorne. (Ride in the morning would be sufficient). GLORIA D. RICHARDSON (9320-103, Ext. 2151) OSborne 5-3081. 3-10

(Zone 11)
ANZA and EL SEGUNDO, Hawthorne. BOOTS PEARLMAN (3140-710, Ext. 489), OSborne 6-6557. 3-11

GRAND and MAIN, El Segundo. SHIRLEY HALL (3350-822, Ext. 2781), El Segundo 473 W. 3-11

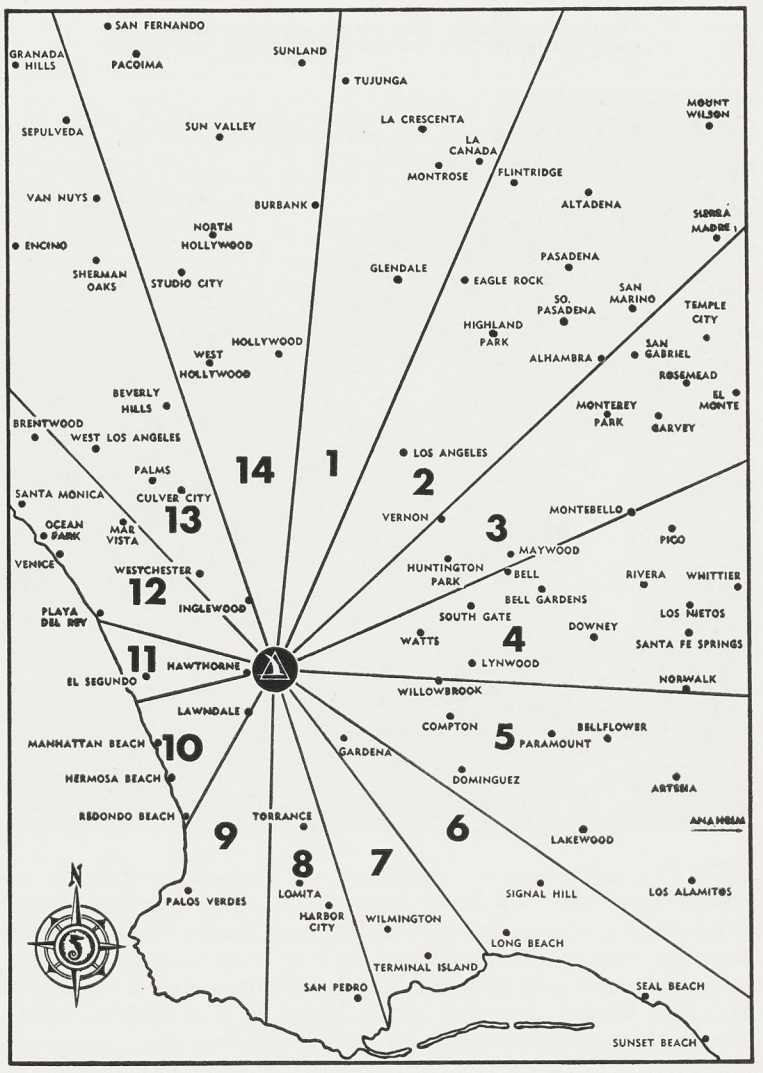
(Zone 12)
SUNSET and VIA DE LA PAZ, Pacific Palisades. R. S. DOLL (5141-3, Ext. 514), EX 4-5665. 3-12

(Zone 13)
LA BREA and CENTINELA, Inglewood. THOMAS MOULTON (9320-30, Ext. 1681) OR 7-1859. 3-13

PARTHENIA & BALBOA. (Interested in car pool), Northridge. JOHN JURIST (3410-91, Ext. 1816), DI. 2-0017. (3-13)

AUSTIN & INDUSTRIAL, Inglewood. MINNIE C. LAUER (9500-17, Ext. 2254). (3-13)

OVERLAND & JEFFERSON, Culver City. CHARLES J. ADAMS (7010-18, Ext. 2336), VE. 9-9838. (3-13)



RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 14)
CRENSHAW BLVD. and 48TH ST., Los Angeles. VIRGINIA CORSON (9320-62, Ext. 1213). AX 1-4523. 3-14

ALVISO and 60TH, Los Angeles. EDWIN M. SKINNER (3510-29, Ext. 567), AX. 1-3882. 3-14

3:45 p.m. — 12:15 a.m.

(Zone 3)
FIGUEROA & MANCHESTER, Los Angeles. F. S. GILMAN (5501-166, Ext. 2200). (6-3)

(Zone 10)
HIGHLAND AVE., & 7TH, Manhattan Beach. MILDRED JOHNSON (4230-37, Ext. 631). (6-10)

(Zone 14)
HIGHLAND & SUNSET BLVD., Hollywood. VERNON M. CRAWFORD, JR. (9350-68, Ext. 2298), HOllywood 7-4161. (6-14)

4:45 p.m. — 1:15 a.m.

(Zone 1)
FLETCHER DRIVE & SAN FERNANDO ROAD, Los Angeles. ANTHONY REZNIK (5534-440, Ext. 2244). (8-1)

WESTERN & 3RD ST., Los Angeles. M. TESSITORI (5503-680, Ext. 2681). (8-1)

(Zone 2)
MANCHESTER & WESTERN, Los Angeles. CLIFTON H. COATES (5534-255, Ext. 2244). (8-2)

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Zone 2)
GEORGIA & 11TH ST., Los Angeles. HARRIET K. LITTY (5508-636, Ext. 2230), RI. 8-9069. (8-2)

BROADWAY & 39TH or Santa Barbara & Figueroa, Los Angeles. LEON JAMES NELSON (5524-659, Ext. 2209), PL. 8-0951. (8-2)

FIGUEROA & 53RD ST., Highland Park. MARGARET PORTER (5507-484, Ext. 526). (8-2)

MISSION RD. & GRIFFIN AVE. (Near Los Angeles County Hospital), Los Angeles. HUGH T. WILSON (5504-289, Ext. 1424). (8-2)

TEMPLE & HILL ST., Los Angeles. PETER G. ROVIRA (5504-617, Ext. 1808), MI. 3077. (8-2)

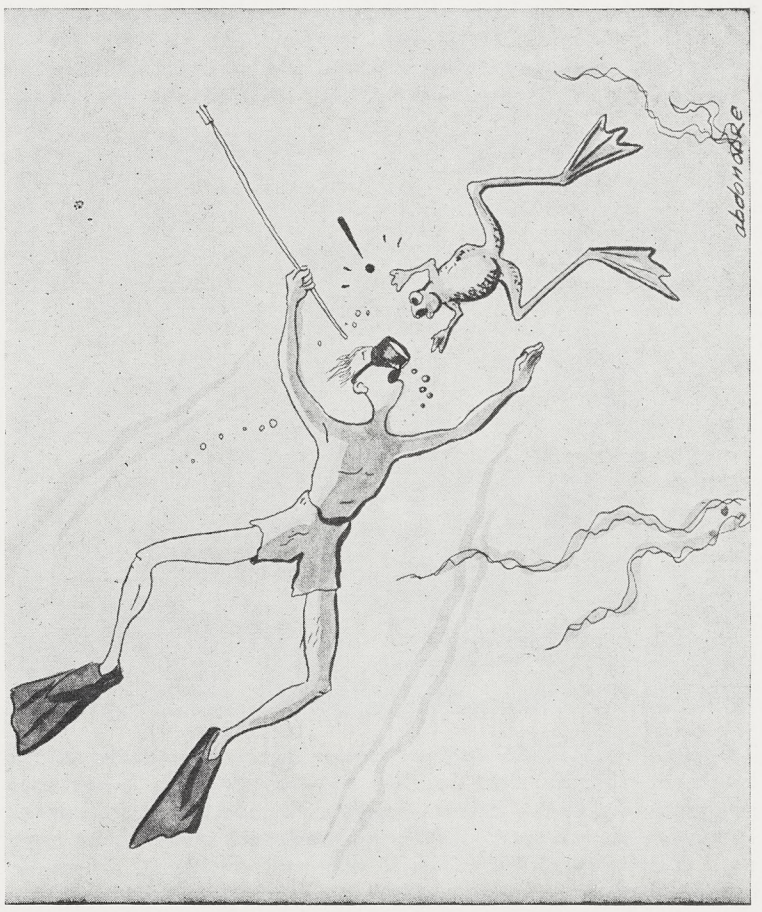
(Zone 4)
MAIN & 109TH, Los Angeles. CHARLES W. BOEDICKES (5534-404, Ext. 2465).

BROADWAY & 119TH ST. (Two people), Los Angeles. B. T. HALEY (5232-247, Ext. 1597), PL. 4-7035. (8-4)

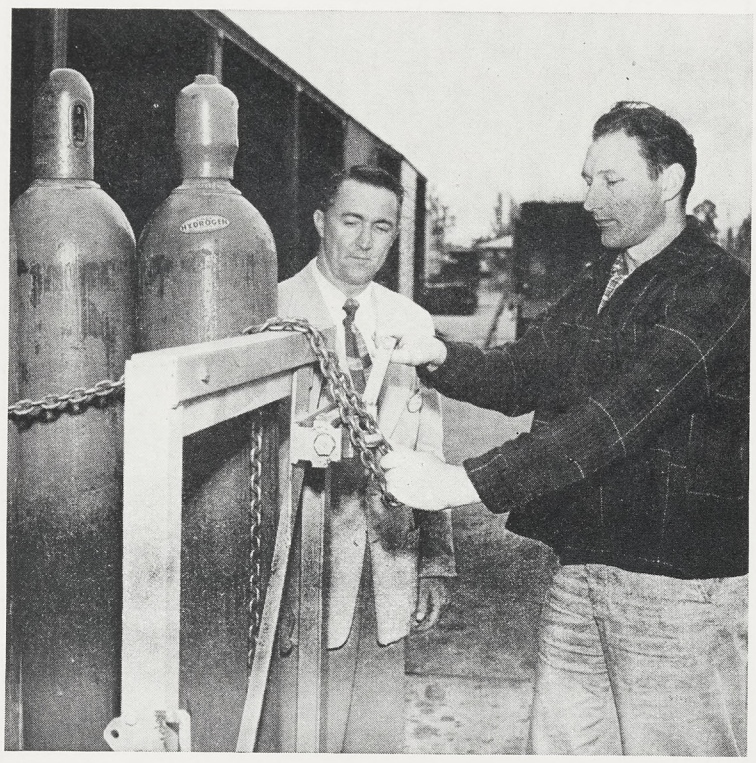
(Zone 5)
ORANGETHORPE & RICHMAN. (Interested in car pool), Fullerton. EUGENE J. SNELLER (5587-414, Ext. 1947). (8-5)

PIONEER BLVD. & ALONDRA BLVD., Norwalk. BARBARA P. PALMER (5544-269, Ext. 2645), TOrrey 3-7373. (8-5)

(Continued on Page 8)

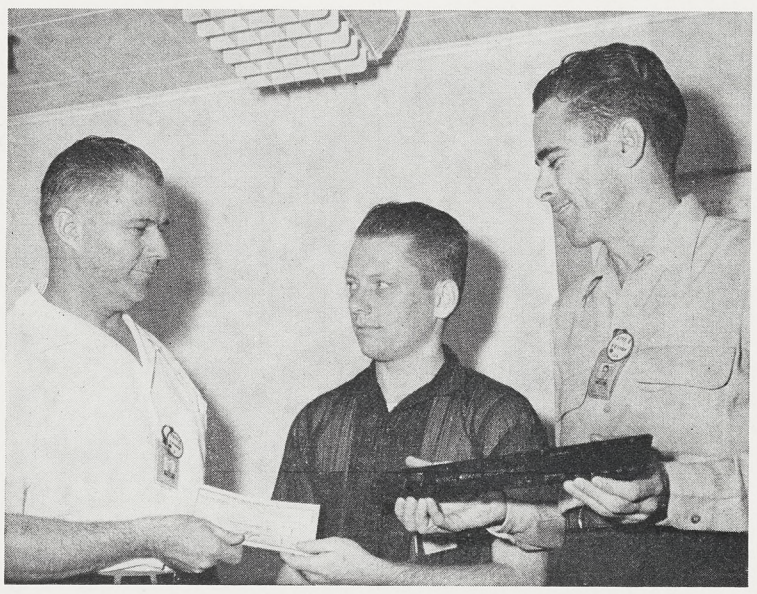


Safety Suggestion

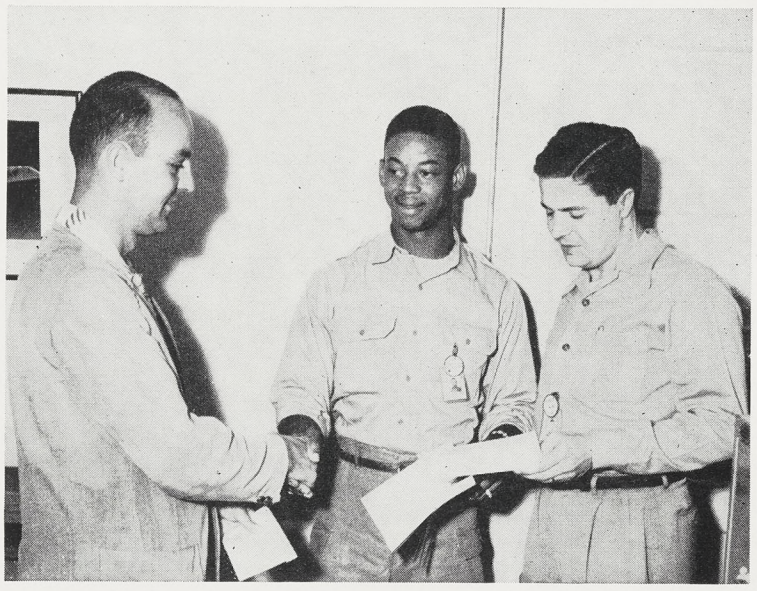


SAFETY, efficiency in handling of oxygen containers resulted from idea of F. J. Johnson, jr., right, Maple Street Warehouse, who suggested trailer now being used to transport the bottles. Small dolly is used to haul bottles to trailer; upright bottles are securely held by chain, which is tightened by cinch binder. Johnson shows latter to Don Riddle, supervisor. Idea is great boost to Safety-Conservation program.

Patrick AFB Awards



FILM UTILIZATION is increased considerably by ingenious device suggested by Elbert Charpie, Instrumentation, Northrop Missile Test Facility. Verl Smith, chief of Florida base, presents check for idea which allows reading of film footage in Mitchell Film Magazine in daylight. B. B. Brown, supervisor, looks on. Film savings of 18 per cent may be realized by its useage, amounting to a large sum yearly.



TUMBLING T-BARS will no longer annoy file clerks at the Northrop Missile Test Facility due to use of a T-bar rack suggested by E. B. "Eddie" Brightmon, 5162. Eddie, center, receives check from C. A. Kerner, assistant chief of the base, as J. W. Oed looks on. The handy rack will hold T-bars securely when not in use avoiding injury to file clerks or others.

Their Own Handiwork

MODELS—Members of the NRC Knitting Club modeled samples of their handiwork at recent meeting of the NRC Women's Dinner Club. Shown from left: Holly Duckworth, Material Operations; Loretta Fritzel, guest; Billie Vore, Cost Estimating; Mildred Wagner, guest; Pat Russell, Cost Estimating; Dorothy Baldwin, Contract Administration; Ruth Baumea, Cost Estimating; Louise Reeder, guest; and Anna Lee, guest. Also featured was an exhibit of handknit argyle socks, sweaters, and baby clothes. Knit Club meets each Tuesday at 7:30 p.m. Dinner Club meets once each month. May meeting will feature orphans' party. Following the dinner-show, ladies held a hat making contest.

CHIC CHAPEAUX made by NRC Dinner-Knit Club members won prizes for, from left: Virginia Perry, Engineering Projects and Components, for prettiest hat; Sally Paulson, guest, for "hat Hedda Hopper would most likely wear"; Adalei Robinson, Spares Coordination, for most comical hat. Ladies created original headgear from Easter decorations, paper plates, ribbon, and imagination. Runners-up in rear.

Suggestion Award For Life Saver

A positive-action safety device for use by laboratory technicians in below zero cold chambers has been given a Suggestion Award. The device, as simple as a conductor's bell rope, was devised by John B. Miller, night shift leadman, Engineering Test Lab.

Miller's suggestion came after he had made a study of the many hidden dangers which threaten laboratory workers when testing components at 60 and 70 degrees below zero.

Ordinary methods are sometimes made inoperable by the intense cold. Throat mikes freeze up and scanning lenses frost over so that control room personnel cannot hear or see the man inside the chamber.

Malfunction of equipment, such as escape of CO_2 fumes, may cause the technician to lose consciousness.

Miller's device consists of a pull-apart wire strung within easy reach of researchers. When trouble arises they have only to grab the wire, which pulls apart and breaks the circuit—causing a bell to ring in the control room.

Miller was presented with his Suggestion Award check at an informal meeting of his department's supervision and representatives of Safety and Suggestion Award departments.

KEGLER TOURNEY ON AT EDWARDS; FULL HANGAR HALTS TABLE TENNIS

Tournament bowling is in full swing at Northrop Edwards facility with ten kegler teams competing at Antelope Valley alleys.

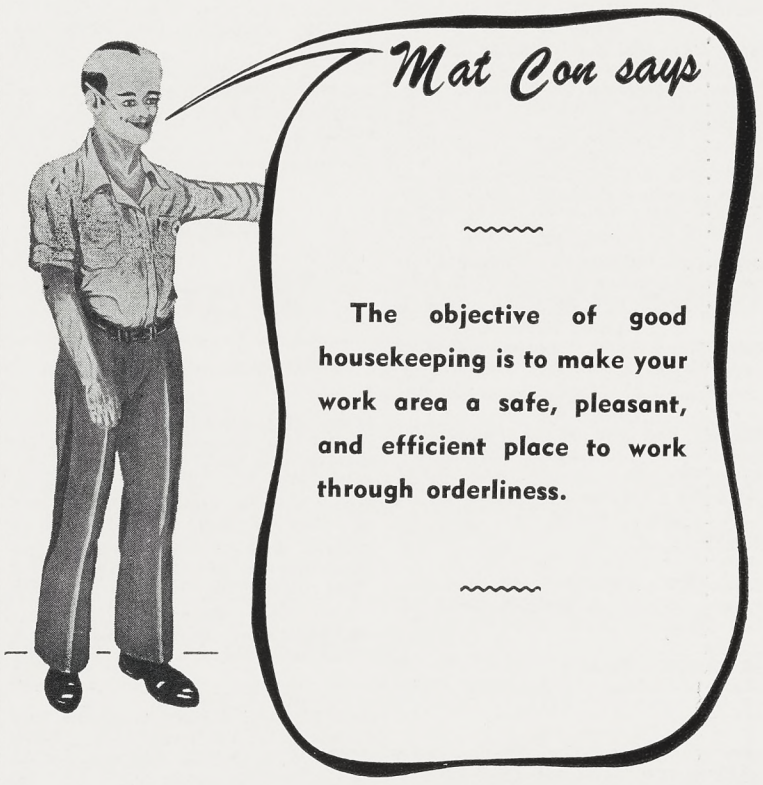
Now in the lead are the "Eight Balls" with 52 wins, 38 losses. First place players are: N. W. Edic, 5819; H. W. Meyer, 1810; Manuel Valdez, 1810; E. L. Neary, 1810; and "Willie" Raikes.

Tied for second place in games won and lost are "The Odd Balls", whose high game score of 763 was second to first place team's 798.

Third place team is "The Whirlabouts".

Other sports at the Edwards facility are not on a tournament basis at present although free play at chess and pinochle continues during lunch hours in preparation for tournaments later.

Ping-pong and badminton have been brought to a standstill by the many airplanes at Edwards which are hangared due to rains and chilly weather.



BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

CARPET with pad, rose colored, 13½'x 22½'; BREAKFAST SET at a bargain. J. F. PARIS. Reply in writing to Northrop News, Box 1819. A

SAFE, fireproof, good as new, cost new $500. 3 small drawers, one large drawer. $250. ARTHUR R. HEWITT, CRestview 6-1735. A

REFRIGERATOR, large Coldspot, 8 cubic ft. Recently overhauled, excellent condition, $75. HOWARD RICHCREEK, EX 60447.

OLDSMOBILE, 1941 4-door sedan, radio and heater, good tires, motor just overhauled, Hydra-Matic shift, $95. C. W. PETERS, El Segundo 1311.

FORD, 1940, clean, just finished overhaul on transmission, universal and king pins, good engine, fair tires, $175. J. A. LARSON, MEnlo 4-7862.

GAS RANGE, Gaffers & Sattler table top, excellent condition, flexible connecting gas line, $20, B. BINGE, FRontier 5-4358.

TELEVISION, 12½" Philco, blond console, $35; blender and liquefier, OSTER, $25; electric HEATER, 2-speed, $15; G. E. IRON, like new, $6.50, DONALD J. KELLY, RI 7-3953. A

PUPPIES, collie, A.K.C. registered, 6 weeks old at Easter, pet and show stock. J. P. LaVELLE, OS. 6-4698. A

OUTBOARD MOTORBOAT, 11'9", like new, not been used, built for fishing trips, $100. H. M. WORCESTER, AX. 3-5904 late afternoon. A

PUPPIES, 2 male Dachshund, smooth, mahogany reds, champion bred, $35 and $50, H. R. McPHERSON. Reply in writing to Northrop News, Box 1816. A

GAS RANGE, automatic, four burner apartment size, large oven and broiler, like new, $50, C. J. FONTECCHIO. PL 5-8638. A

IRONER, Easy floor model, A-1 condition, $75. C. G. McCALL, EX. 3-8721. A

REFRIGERATOR, 7' Coldspot, 1948, perfect condition inside and out, $80, A. AUTERA. Reply in writing to Northrop News, Box 1815. A

RABBITS, 3 does and 1 buck, hutches and feed dishes, $25, DANIEL L. JONES. Reply in writing to Northrop News, Box 1813. A

PIANO, upright Ellington, excellent tone, good finish, good ivory, RON NESWALD, AR 8-9363. A

WASHING MACHINE, Apex semi-automatic, good condition, 1952 model, 8-lb capacity, $40, B. PATTON, OSborne 5-5306 after 4:30 p.m. A

CHEVROLET, 1948 Fleetline 2-door sedan, excellent condition RICHARD H. WILKINS, JAsper 9-2012 (Brea). A

SET OF SOCKETS, ½" drive, sizes ⅝" to 1¼", and ratchet, speed wrench extensions, "T" handle, universal coupling, and deep sockets, $25. H. E. BURNSTINE, DI 3-2357. A

BODY, FENDERS and HOOD from 1939 Mercury 2-door sedan, R. D. RICHTER, MEnlo 4-0990. A

BOX TRAILER, approximately 2'x4'x6', good condition, must sell to best offer, P. H. CHAMPION, ST 9-5791. A

HOUSE, 2-bedroom and den with fireplace, wall-to-wall carpeting, fireplace and barbecue patio, stucco, large lot with trees, completely fenced, 5 miles from Northrop — $1000 down, $10,980, OS 5-5064. A

SAIL, Snow Bird Olympic, bargain, like new, $75. MAY HAWKINS. Reply in writing to Northrop News, Box 1812. A

BASSINETTE, like new, with plastic liner, mint green, $10, J. P. KEARNS, DI 3-6804. A

AUSTIN 'Devon', 1951. 4-door sedan, new tires and rings, $690. E. G. BENTLEY, El Segundo 1431R. A

CHEVROLET, 1948 club coupe, very clean, radio, heater, seat covers; $425. JOHN E. BOURKE, OR 2-8468. A

WASHER, Kenmore, wringer type with pump, excellent condition, $35. E. W. BATES. Reply in writing to Northrop News, Box 1807. A

DIAMOND ENGAGEMENT RING, like new, never worn, gem blue-white diamonds set in platinum, size 4, Tiffany set centerstone measuring .53 points with 2 baguettes measuring .12 points each, $550, GEORGE UVEGES. AXminster 2-1183. A

WINCHESTER model #72 carbine, 32-20 calibre w/copper-jacket deer shells included, open "V" luminous and peep sights, very good condition, sacrifice for $25, JOHN T. McMILLAN, JR., FA 8-4137. A

DEEPFREEZE, 17 cubic feet, upright, 1953 model, best offer. CALVIN C. KEUNE, PL 8-3790. A

TRAILER, two-wheel, also tarp and two extra tires, welded frame, very solid, $35, RAY NORMAN. Reply in writing to Northrop News, Box 1810. A

LAWN MOWERS, 2, in excellent condition, originally cost $34.50 and $21.50. Both for $20, HERB ANNAN, NE 2-6169.

STUDEBAKER Champion, 1950, good engine, 4 good tires, radio and heater, $750, JOE TARANTINO, CA 2-8456. A

ACCORDION with case, Ambassador, Italian made, woman's or child's size, 120 bass, dual switch base, 5 switch, 9 months old, $200, original price $350, KImball 6505. A

PUPS, terrier, small well marked, take home in 3 weeks, males $2, female $1.50. W. J. DANKOWSKI. Reply in writing to Northrop News, Box 1805. A

PLYMOUTH, 1948 Special deluxe club coupe, all extras, original and clean inside and out engine and brakes recently overhauled, good rubber, $400, W. F. TEUBNER, FRontier 4-9508. A

FORD, Victoria, 1951, radio, heater, Fordomatic, whitewall tires, Continental Kit, will take '46 Ford or Chevy for down payment, full price $1450, LYNN C. PEW, DA 6-3668. A

HOUSETRAILER AWNINGS, 2, 8'x24' blue and white striped, framework included, 8 months old, $65 each. J. GREEN. Reply in writing to Northrop News, Box 1803. A

COTTAGE TRAILER, very fine condition, new stove, new awning, and lots of extras, forced to sell, leaving city, $1000, DA 6-9998. A

FORD coupe, 1946, radio, heater, windshield washers, seat covers, tires all practically new, A-1 condition inside and out, $350 or best offer over. JACK GAMBY. Reply in writing to Northrop News, Box 1804. A

PARAKEETS, young, first hatch, or mated pairs, under one year old, choice of colors, reasonably priced, MURIEL HEFLIN, ME 4-7840. A

CYCLE JACKET, black leather, like new, size 42, $16, R. L. MOOREHEAD, EX 9-8292. A

CHILD'S SWING SET including bars, glider and ladder, $20, PEARL HARDACRE, OS 5-3423 after 4:30 p.m. A

PLYMOUTH, 1936 4-door, body good, radio, heater, new carburetor, distributor, brakes, engine needs small amount of work, $50, BARBARA PRITZKAT, FR 5-5838. A

PLYMOUTH, 1949 4-door Special deluxe, radio, heater, good rubber, new seat covers, excellent condition, $695, R. A. MAGIN, ME 9-3760. A

RCA TUBE and SET TESTER, $25; 12" Jenson HI-FI, $10; console RADIO A.M. and S.W., $12, A. L. MacKENZIE, FR 4-0069. A

CHEVROLET, 1950 club coupe, radio and heater, light blue, excellent condition, good tires, $895, MARTHA GRAVES, PL 4-8833. A

TRAILER—2-wheel luggage trailer, 15" wheels and tires, channel iron chassis, excellent condition, hitch included, $40, J. GATTIAN, ORchard 1-5570. A

LOT in Apple Valley, 3 miles out of Victorville, within 300' of a Catholic school and church on highway #18, DALE F. NORRIS. Reply in writing to Northrop News, Box 1801. A

POWER HACK SAW, with or without motor, $40 less motor, $55 with motor, G. C. GLADBACK, OS 6-3909. A

HOUSE TRAILER, Rollaway, 35', 2-bedroom, aluminum exterior, birch interior, Pulverator, 26' awning, terms, $2195, E. S. JACOBSEN, OR 1-9953. A

REFRIGERATOR, Servel, good condition, $50, HELEN K. POOS, OR 7-1750. A

MUFFLER, like new, for '53 Ford, $4, LEO K. YOSKOWITZ, PL 1-1707. A

SIDING, crimp aluminum, .024" thick X 8' long. 8 sheets, enough for double garage door, $20. FRANK G. JEFFERS, Ok. 2-1064. A

HOUSE TRAILER, 1953, 35 ft., Pan American super deluxe, knotty pine kitchen, glossy finish interior, breakfast nook, full bathroom, garbage disposal, 1-bedroom, island bed 2 vanities, fluorescent lighting, w/w carpets, '54 tabs, 8x30 awning, will transfer insurance to buyer, have pink slip, must sell at once, $4650. AL JABLINSKE. Reply in writing to Northrop News, Box 1844. A

RANGE, gas, O'Keefe & Merritt, low oven and broiler, full size, $15. REX BURNHAM. Reply in writing to Northrop News, Box 1842. A

WELDING OUTFIT, acetylene, Victor gauges, Purox torch, 4 welding tips, 1 cutting tip, 1 rosebud, 125 hose, 10 whip, miscellaneous tools, goggles, etc., perfect condition, $85. P. O. FOREMAN, EDgewood 6-3848. A

RIFLE, 30.06 Remington Enfield, converted sportster, (K-4 Weaver scope with Redfield mount), with issue stock, bolt and release tang reworked, iron sights removed and barrel newly blued, $75. R. J. SALMON, OXford 6-5820. A

CHEVROLET, 1953 Bel Air sport coupe, radio, heater, whitewalls, underseal, pipes, perfect condition, low mileage, $2150 or best offer; BUICK, Century 1939, coupe, hot engine, radio, pipes, whitewalls, good condition, new paint, $175 or best offer. GARY STANTON, OR. 1-3063. A

MOTOR SCOOTER, '46 Cushman, $65; side car less tire, $10; Dormeyer FRIWELL, $15; Keystone 8mm CAMERA & PROJECTOR, $75; My-Double adjustable DRESS FORM, $15; MODEL RACING CAR, aluminum body, mighty midget, $10. DON CARLBERG, OS. 6-4752. A

CHEVROLET, 1948 panel truck, A-1 condition, $200 and take over balance of $260 in $31 monthly payments. WILLIAM LANEY, FR. 2-0048. A

DRAFTING MACHINE, K & E 24", with scales; RECORDERS, disc, tape, and wire; Hi-Fi SPEAKERS; and AMPLIFIERS, TV CHASSIS & TUBE; portable RADIO, price open. W. S. COOK. Reply in writing to Northrop News, Box 1841. A

TOOL CHEST, with lock, like new, $4. P. WALLMAN. Reply in writing to Northrop News, Box 1845. A

STUDIO COUCH, makes into double bed, used very little, cost $108, will sell for $55. H. RAPSTAD, FAirfax 8-3425. A

OLDSMOBILE 98, 1949, 4-door, Hydra-Matic, whitewalls, etc. $300 cash or older car for equity, balance $826. BOB BISHOP, FAirfax 8-7246. A

PUPPIES, Pug, 6-weeks old, 3 males, 1 female, champion stock, AKC registered, pedigree. C. T. JACKSON, FR. 2-0689. A

FIRE SCREEN, antique finish, $6. KATHLEEN EMGE, PL. 3-6744. A

SUNBEAM TALBOT 1952, A-1 condition, 4-door sedan, all red leather upholstery, take over 22 monthly payments at $51.63, and $400 for equity. (Night shift). DALE THORAK, PL. 5-1750. A

HOUSE, 2-bedroom, hardwood floors, no garage or drive way, lot 50' x 150', patio, 10' x 14' work shed, my equity, $1900, lived in for 22 months, $7800. STEEL GUITAR, Dickerson, matching amplifier, color blue pearl tone, $35. G. L. NICKEL, FR. 2-0585. A

BOAT, 24 ft., cabin, 4-cylinder Universal marine engine, bait tank & pump, compass, life jackets, head, fiber glass-covered hull, good fishing boat, $600. DONALD NORTH, OR. 7-3222. A

MOTORCYCLE, 1950, 74 OVH, Harley Davidson, good condition, new paint, $450. V. J. WATSON, ME. 4-6951. A

TRAILER, 1953, 13 ft. Southland Camper, hardly used, easy to pull, sleeps four or maybe more, full price $700. N. L. BROWN, TO. 6-6808. A

PACKARD, 1946, good tires, clean car, needs rings, $175. ANDREW C. McGRAW, TOrrey 7-5968. A

RIFLE, Marlin, model 39A, .22 cal., lever action, new condition, serial H 100 56, $55. C. W. KIRKHAM, TOrrey 4-4742. A

HOUSE, 3-bedroom, near ocean, 20 minutes to Northrop, fireplace, double garage, automatic heat, patio, 4% G.I. loan, $13,500. HERBERT GEESAMAN, FR. 5-1786 A

TRAILER, all metal large teardrop, 5' x 12', full size, plenty closet space, rear compartment fully equipped for cooking and food storage, 3-burner Coleman stove, completely wired for lighting, insulated, stable for towing and will tow at 90 mph, full price $295. ORchard 1-4080. A

BOAT and/or MOTOR, 1953 12' decked Wizard, good as new, only $185, 5 h.p. outboard, low mileage, only $100, cash or terms. CR. 5-9027 after 6 p.m. A

HOUSE, 2-bedroom, detached double garage, near Crenshaw and 154th, walking distance to El Camino College and Compton-Crenshaw shopping center. Veteran can have for $45 a month payments — full price $9650; WASHING MACHINE, Thor wringer, first-class condition, $15. STEPHEN S. YSLAS, AX. 2-8996. A

TRAILER, '52 Roadmaster 29', like new, w/w carpet in living room, island bed, toilet and shower, garbage disposal, original price $3500. 20 months old, will sacrifice $2200. RUTH WEASEL, PLymouth 5-4855. A

HOUSE, 1-bedroom, 20 x 26 garage, on large lot, $8000. R. E. DU PRIEST, OR 7-8797. A

STOVE, apartment size, O'Keefe & Merritt, perfect condition, $40. J. RAYNER, OS. 5-6561. A

BOAT, 14' Hydroplane, Ford V-8 60 h.p. engine, good condition, high speed and very good for water skiing; pair of water SKIS. HELEN H. LEWIS, OS. 5-5157 after 3 p.m. A

TIRES, three, used, 6:00 x 16, good condition, make offer. ROY A. BALLING, OR. 1-1943. A

STOVE, O'Keefe & Merritt chrome top, $125; Crosley Shelvador REFRIGERATOR, 11 cubic feet, $150; maple DINING SET, drop leaf table, 4 chairs, $125; maple TWIN BEDS, SPRINGS and MATTRESSES, $125; maple SEWING MACHINE — Sear's desk type, $100; maple end TABLES and coffee table, $50; maple COUCH and CHAIR, $50; Mauser '98 RIFLE, 2 boxes shells, $65; Univex movie CAMERA 8mm, $7.50; ladies' white shoe SKATES, extra wheels, size 6½, $10; 5-ton Hein-Werner hydraulic JACK, $7.50; 8" tilting TABLE SAW, motor and stand, $10; ¼ h.p. AIR COMPRESSOR, $7.50; 4-chrome CHAIRS, red leatherette, $10; all wool RUGS and PADS, size 12x18, 9x10, 2 throw Rugs, complete $300. BOB MITCHELL, YUkon 639-506. A

REFRIGERATOR, 6' Servel gas, very good condition. $50; RANGE, O'Keefe & Merritt, large gas range with top griddle, choice of two, very good condition, $75. S. O. GIBSON, MEnlo 4-2766. A

PONTIAC, 1946 4-door, radio, heater, good condition, $295; FURNITURE, 5 rooms, will sell all or part, cheap. ORchard 8-1354. A

PLYMOUTH, '36 4-door, radio, black, good transportation, must sell, $49. HALL EVANS, AR. 7-1727. A

FORD, 1954 Victoria, Fordomatic, radio, heater, turn indicators, tinted glass, underseal, whitewalls, 500 miles, make offer. Reply in writing to Northrop News, Box 1837. A

PLYMOUTH, 1953 4-door, $1325, can finance $1000 — will take older model in trade. WAYNE STUCKEY, OR. 2-3307. A

KAISER, 1947, radio, body, tires and paint in good condition, rebuilt engine, sacrifice $195. VICTOR C. SUSTARSIC, OR. 1-3916 after 5 p.m. A

PONTIAC, 1950 convertible, excellent condition, extras, Hydra-Matic, 30,000 actual miles, $1050. NEILL LANGFORD, FR. 4-2590. A

DAVENPORT, 3-piece rose frieze sectional, excellent condition, must sell cheap, $65; WASHER, wringer type, $25; PHOTO-FLOOD LIGHTS, 2 single Victor, 1 Acme twin, $16 or best offer. DAVID J. HADDAD, OS. 6-9567. A

BABY FURNITURE, matched set, crib and dresser in light maple, mattress included, good condition, $25. WARD BRANNON, EXbrook 7-9900. A

BATHROOM OUTFIT, used, complete, modern, will sell all or part of set, complete $37. GEORGE A. BELL, OSborne 6-5927. A

RING SET, engagement and wedding ring set, appraised at $400, make offer. M. R. STEWART, WH. 3151 after 5 p.m. A

WATCH, Hamilton, six diamonds, 17 jewel, white gold, good condition, keeps good time, five years old, $50. GERTRUDE B. AHRENS, MEtcalf 3-8762. A

DODGE, 1948 4-door sedan, radio, heater, fog lights, back-up lights, air foam cushions, $475. Call PHIL HAUGE, TW. 9358 evenings. A

HOUSE, new 6-room, 3-bedroom, 1½ baths, maple hardwood floors throughout, 2 dual wall furnaces, extra large kitchen and dinette, 2-car garage with laundry room and ¾ bath, house slightly unfinished, look it over and make offer, vicinity of Morningside Park. EARL M. HOLBROOK, PL. 8-9928. A

MOTORCYCLE, 1949 Ariel Twin,. HAROLD DUNNELL, OS. 6-7502 from 4 to 7 p.m. A

RING, ladies' diamond ring, one large and two smaller diamonds, beautifully mounted, cost $350, will sell $150. ARrizona 7-1539. A

CADILLAC, 1936 '60' 4-door sedan, engine good, new clutch, '54 tabs, side mounts, $100 or best offer. M. C. FRANTZ. Reply in writing to Northrop News, Box 1832. A

TYPEWRITER, useable Woodstock, $10; Electrolux VACUUM CLEANER, good condition, with all attachments and tool carrier, $40; G. E. WAFFLE IRON and GRILL combination, never used, current model, $20. JOHN LEE, OS. 6-0913. A

BABY BUGGY, HIGH CHAIR, good condition, $12 for both. DOROTHY G. HOOD, OS. 5-5229. A

SCOOTER, 1941 Cushman, motor needs little work, 1954 license, $25. Reply in writing to Northrop News, Box 1839. A

TRAILER, 2-wheel, 9' body with metal floor, 2 sets of wheels and tires in good condition, asking $35; WHEEL CHAIR in good condition, $15. WM. VOLESKY. Reply in writing to Northrop News, Box 1835. A

TV, 10" Motorola console, small cabinet, $30. L. E. MOORE. Reply in writing to Northrop News, Box 1834. A

OLDSMOBILE, 1953 convertible coupe loaded with extras, reasonable price. R. H. STARK, TW. 3207. A

PUPPIES, toy fox terrier, reasonable. J. W. TAYLOR. Reply in writing to Northrop News, Box 1824. A

HOUSE—2-bedroom, G.I. resale, walking distance from plant, ideal for shopping, school and transportation, large fenced yard, priced for quick sale by owner, OS 55981. A

TYPEWRITER, late model Remington, standard, like new, pica type. F. DuPRIEST, Long Beach 93019. A

TWIN BEDS, mahogany, Goodyear foam rubber mattresses, box springs, almost new. M. N. McLEOD, OR. 2-4204. A

AIRBRUSH TANK with gauge and 12' light weight hose, Pasche, stands 25" high, 10" diameter, bought new January, '54, used twice, $30. EMMETT SHIELDS, NOrmandy 2-4734. A

PUPPIES, Boston toy, beauties. P. A. BOUSTIAN, FRontier 28361. A

TYPEWRITER, L. C. Smith Corona portable, never been used since overhaul, new keys, $35; BEDROOM SET, modern blond, Mr. & Mrs. 8-drawer triple dresser, two 3-drawer commodes, Hollywood bookcase bed and frame, $50. OLIVE JONES, TO. 9-7177. A

PLYMOUTH, 1953 Belvedere, only 11,000 miles, excellent condition, w/w tires, foam rubber seats, deluxe heater, turning indicators, chrome wheel discs, extra bumper guards, two-tone blue, original cost $2843, will sell for $1800. C. C. ADAMS. Reply in writing to Northrop News, Box 1822. A

MERCURY 1952 sport coupe, Mercomatic, radio and heater, w/w tires, all extras, excellent condition inside and out, take over monthly payments. Will sell $1000 equity for $500. PHILIP BEDER, PL. 26064. A

MOTORCYCLE, 1951 Matchless, 30.50 cu. in. single cylinder, spring frame, $550. JERRY WETTERHOLM, OS. 5-4377. A

WASHER, Bendix automatic, Spin Dry, 2½ years old, good condition, $75; aluminum CLOTHES LINE, nearly new, 75', $10. R. C. JOYCE, EXbrook 7-7177. A

POLAROID LAND CAMERA outfit including camera, tripod, compartment case, capacitor flash, light meter, filters and close up lens all like new, sacrifice; green bed DIVAN SET, $25; R.C.A. 45" record attachment and records, $15; Goldie SLIDE STACKER, $3; L. W. De Laurence's "Great Book of Magical Art," $5. A. H. DAVIS, OS. 5-4505. A

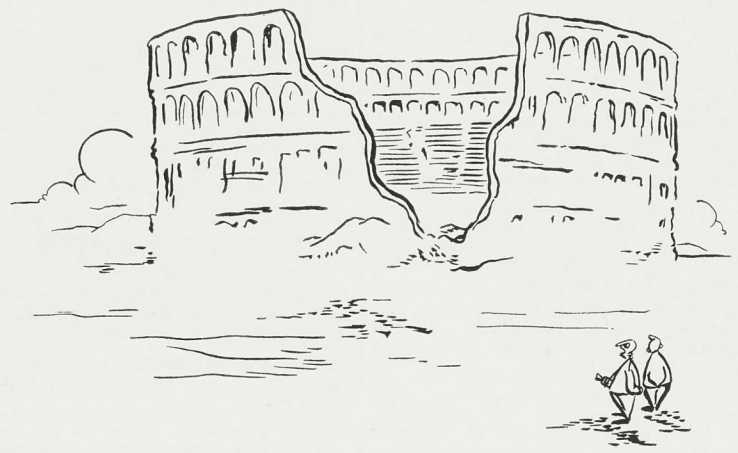
CARD TABLE—4 chairs, all metal, $10; CROQUET SET, 6 mallets and balls, $5; breakfast TABLE, 4 chairs, all wooden, $12.50; Emerson portable RADIO, no batteries, $10. MARGARET REEDER, PL. 26064. A

HOUSE, two-bedroom, double garage, close to school, G.E. garbage disposal, weather stripped doors and windows, hill property, dual floor furnace, insulated, $8275 equity for $1500—G.I. resale, low monthly payments including taxes and insurance. Reply in writing to Northrop News, Box 1823. A

HOUSE TRAILER, 25 ft., '47 model, electric refrigerator, apartment-size stove, good condition, best offer. LORNA WARREN, OR. 2-9279. A

MOTORCYCLE, 1942 (45' H.D., A-1 condition, '54 tabs, $225 or best offer; CADILLAC, 1936 '60', 4-door sedan, engine good, new clutch, '54 tabs, side mounts, $100 or best offer. M. C. FRANTZ. Reply in writing to Northrop News, Box 1832. A

(Continued on Page 8)



"Musta been some ball game!"

BBSF CLASSIFIED ADS

(Continued from Page 7)

WANTED TO BUY

DUAL EXHAUST manifold or complete set-up for '48 Chrysler '6', C. G. INGRAM. Reply in writing to Northrop News, Box 1817. B

DUAL MANIFOLD for '48 Chevy-Hi Torque engine. RICK DIVIN, OS 6-2076. B

AVIARY, walk-in type, DON McCULLOCH OR 2-2434. B

OUTBOARD MOTOR, 5 or 7 h.p., will pay cash. PAUL BOULANGER, OSborne 6-4920. B

CASE for No. 440-A, Starrett micrometer depth gauge. CY A. ROBERTS. Reply in writing to Northrop News, Box 1809. B

TOOL CHEST, rollaway and Kennedy kit, J. A. HOBLER. Reply in writing to Northrop News, Box 1808. B

SIDEWALK BICYCLE, 16", with side wheels; GYM SET, KIDDIE-CARS, W. S. COOK. Reply in writing to Northrop News, Box 1802. B

ROLLAWAY BED, MILES F. SCHWARTZ, OR 8-6096. B

WIRE or TAPE RECORDER, good condition, N. T. HOPS, CR 1-1737 evenings from 9 to 9:30. B

AUTOETTE, good condition, price open for discussion, call any time. MRS. L. D. TUNNELL, FR. 2-7774. B

RECORDS, jazz, modern, standard, 45 or 33/1/3 RPM. EDWARD P. SPEICH, OR. 7-4163. (Call between 12 noon and 3 p.m.). B

TRUCK, cash for good ½ or ¾ ton stake or furniture truck, 1941 to 1949 preferred. GERALD DIKEMAN, OSborne 5-1695. B

VACUUM HEAD for swimming pool. FRANK KLINE, AX. 3-8963. B

HOUSE or income property, Manchester-Vermont area. HARRY KLINE, AX. 24146. B

FILE CABINETS, two-drawer size, less than 28" high, prefer steel, need one or two. R. N. OLIVER. Reply in writing to Northrop News, Box 1829. B

TRICYCLES, WAGONS or back yard SWING SET for children, ages 5 and 6. MYER MILLER, ME. 9-1333. B

RECORDS for 15½" music box. J. DEL FRITZAL, OR. 8-3862. B

FOR SALE OR TRADE

HOUSE TRAILER, small, 2-wheel, poor condition, best offer. BOB ST. GEAN, AR 3-3778. M

PROJECTOR, like new. Keystone 16mm, never used, retails for $37.95, sell for $24. Interested in trade for 8mm. A. DICKASON, FR 5-3938. M

GASOLINE ENGINE, Briggs & Stratton, almost new, will sacrifice, no reasonable offer refused, or will trade for what have you, CLAYTON C. ADAMS. Reply in writing to Northrop News, Box 1814. M

MANIFOLD, one dual intake, for '49-'53 Ford, with one carburetor, fuel lines, sidemount generator bracket, also 2 chrome oil bath AIR CLEANERS, small size for duals, sell for $40 or trade for good new type 4-throat carburetor. C. W. KIRKHAM, TOrrey 4-4742. M

DARKROOM equipment, complete for 35mm film, might consider trade, $65. G. L. NICKEL, FR. 2-0585.

REVOLVER, Webley, .455 Service, excellent condition. Interested in cameras, musical instruments, amateur radio equipment, etc., or you name it. WALDO T. BOYD OS. 6-3319. M

BANJO, Kay tenor with case; will consider trade for General Electric DW-68 exposure METER, or one of similar value, $20. JIM HARRIS, OSborne 6-5847. M

BOAT, 16'x7' beam, Dolphin, mahogany decks and windshields, complete with custom trailer and 25 h.p. Evinrude outboard, full remote control, $1200 cash or trade on unimproved real estate. S. O. GIBSON, MEnlo 4-2766. M

DAVENPORT and CHAIR, 2-piece Kroehler, approximately 10 years old, very good condition, will sell or trade for 9x12 rug in same condition. PHIL SANCHEZ. Reply in writing to Northrop News, Box 1830. M

FORD 1953 "Sunliner" convertible, 7000 miles, Sungate ivory with blue leather interior, overdrive and dual exhaust system. Will sell $1350 equity for $450 or trade for good 1948 Buick Super sedanette. WARD BRANNON, EXbrook 7-9900. M

MOTORCYCLE, Indian Chief, with bars and mag., ideal for hill climbs, $75. H. R. McPHERSON. Reply in writing to Northrop News, Box 1827. M

RADIO, Buick, 1941, A-1 condition, less antenna, 8-tube, reasonable. W. W. RATLIFF. Reply in writing to Northrop News, Box 1843. M

RANGE, Westinghouse, electric, high oven, good condition, will sell cheap, or trade for anything. G. W. KROMER. Reply in writing to Northrop News, Box 1840. M

MARIMBA instrument, hasn't been used, good condition, will trade for a steel guitar or what have you; PHONOHARP, like a zither, $50. GLENN H. BOWARD, OR. 7-4309. A

FOR SALE OR TRADE

CAMERA—4x5 Crown Graphic with Kodak Ektar 4.7 lens, rangefinder, speeds 1 sec. to 1/400 Supermatic shutter—solenoid attached—3 cut film holders, revolving back & triple extension bellows, $85 or trade for 2¼ x 3¼ Speed Graphic. H. D. GARVEY, OS. 54582. M

FOR TRADE

RECORDS for 15½" music box. J. DEL FRITZAL, OR. 8-3862. C

DINETTE SET, blue chrome, with 4 chairs, will trade for wooden set. J. LINK, NEwmark 2-1867. C

COLLEGIATE MICROSCOPE (50, 150, 300 power) and complete set of experimental SLIDES and EQUIPMENT; and TELEGRAPH SET (2 keys and plenty wire, batteries, buzzers)—will trade for MODEL MIDGET RACE CAR and outfit—must be good engine. AUTO HARP, like new, will trade for SPANISH GUITAR. BILL BRADFORD, PLymouth 4-4384. C

PLYMOUTH, '49, 3-passenger coupe, good engine and tires, trade for pick-up; MICROMETER, 1" Starrett with lock nut, ratchet stop, trade for drill motor or tools. H. R. CURRY. Reply in writing to Northrop News, Box 1821. C

FREE

KITTENS, 4, JIM BOWMAN. Reply in writing to Northrop News, Box 1811. D

KITTEN, half-grown male, orange and white color, no tail. L. MASON, OSborne 6-1943. D

RENTALS OFFERED

ROOM and BOARD for gentleman, home cooking, laundry optional, garage available, pleasant surroundings, reasonable rent, a real home, PLeasant 8-2053. E

APARTMENT TO SHARE, girl 20, husband overseas, has lovely 3-room apartment to share with congenial girl. 4 blocks from Northrop near Hawthorne Blvd., $55. JEAN M. HUDSON. Reply in writing to Northrop News, Box 1820. E

SLEEPING ROOM, newly painted, one man, $8 a week. H. E. RAPELJE. Reply in writing to Northrop News, Box 1806. E

ROOM, nicely furnished, close to Northrop, board if desired, MRS. IDA GRAY, OR 6-6903. E

DUPLEX, unfurnished, close to Northrop, $50, G. H. ANDERSON, OS 5-2880. E

HOUSE TRAILER, 25 ft., '47 model, electric refrigerator, apartment-size stove, good condition. LORNA WARREN, OR. 2-9279. E

ROOM and BOARD for man on 7:00 to 3:45 shift, non-drinker. WILLIAM CONOVER, FR. 2-7318. E

HOUSE, new, unfurnished, 1 bedroom, utilities furnished, $70 per month, adults only. ALICE E. PERRY, OS. 68250. E

ROOM, one or two men, 5 minutes walking distance to Northrop, private entrance, $8 per week. DAVID HADDAD, OS. 6-9567. E

ROOM in private home, man preferred, ideally located in center of Gardena, private entrance, transportation to Northrop available—7:30 to 4:15. MRS. CAROLYN WILSON, MEnlo 4-3084, after 5:30 p.m. E

APARTMENT, new, deluxe 1-bedroom, unfurnished, adults only, garage, TV plug, disposal, Laundromat, bus service, North Inglewood, $75. C. B. SPENCER, OR. 2-3169. E

HOUSE, Palmdale workers, 3-bedroom, double garage, lawn sprinkler, in North San Fernando Valley, beautiful Granada Hills. Will exchange rental for your house in Hawthorne area. BOB ALLEN. Reply in writing to Northrop News, Box 1825. E

APARTMENT, front duplex, 2 bedrooms with sliding door closets, roomy kitchen with ventilator fan, plenty storage space, venetian blinds throughout, lawn and shrubs front and rear, garage, will take children, Westchester area, available after April 15, $85 per month. EUGENE W. BURTON, OR. 2-8782. E

RENTALS WANTED

APARTMENT or HOUSE, small, for two, furnished, $50 to $60 a month, PETER G. ROVIRA, MIchigan 3077. F

HOUSE or APARTMENT, 2 bedroom, furnished, in or near Torrance, BOB GETZ, MA 6-7940. F

HOUSE, 2-bedroom, alone on lot; may consider others, but must be 2-bedroom and garage. J. POWELL, PL. 4-2109. F

HOUSE, partly furnished 3-room, near Corona or Norco; room to park 3 cars, $40 to $65 per month. BOB COULTIS. Reply in writing to Northrop News, Box 1826. F

CHILD CARE OFFERED

SUMMER CAMP—Boys and girls, swimming, boating, riding, constant supervision. W. L. LEMER, NE. 2-4922. G

CHILD CARE, will care for children in my home by the hour, day or week, large fenced yard, reasonable, reference given. MRS. ENOS V. STEVENS, ORchard 7-8042. G

CHILD CARE—Sunrise Day Nursery, licensed for 2 to 10 years, first or second shift; fenced play yard, play room in house, hot lunches, snacks and naps, close to all aircraft, open 5 a.m. or earlier, register for school vacation. For information call OSborn 6-1786. G

G M W

(Continued from Page 6)

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Zone 5)

STUDEBAKER & CARSON, Long Beach. F. H. MALTSBERGER (7310-440, Ext. 1381). (8-5)

COMPTON BLVD. & CENTRAL AVE., Compton. BOBBIE NOBLE (4220-207, Ext. 674), NE. 2-8789. (8-5)

(Zone 6)

COMPTON & WESTERN or Normandie, Gardena. NORVELLA ARNDT (4240-212, Ext. 777), ME. 4-1900. (8-6)

(Zone 8)

HICKORY & TORRANCE BLVD., Torrance. MICKEY WILLIAMS (5507-624, Ext. 526), FA. 8-2912. (8-8)

(Zone 9)

PRAIRIE AVE. & 160TH, Lawndale. LEWIS B. TAYLOR (5587-812, Ext. 1947), FRontier 2-9314. (8-9)

HAWTHORNE BLVD. & 161ST ST., Lawndale. JACQUALINE ADAMS (5373-403, Ext. 1243). (8-9)

(Zone 10)

MANHATTAN AVE. & MANHATTAN BEACH BLVD., Manhattan Beach. JIM ARDIT (7210-230, Ext. 2206). (8-10)

(Zone 12)

MAIN & ROSE, Ocean Park. MILTON LACKOW (5586-617, Ext. 1973). (8-12)

(Zone 13)

SEPULVEDA BLVD. & SHERMAN WAY, Van Nuys. WILLIAM G. HAIPT (5587-805, Ext. 1973), ST. 6-8353. (8-13)

RESEDA & VENTURA, Reseda. DARLENE THOMPSON (5508-426, Ext. 2230), DI. 3-7395 (8-13)

12:15 a.m. — 7:00 a.m.

(Zone 3)

CENTURY BLVD. & BUDLONG AVE., Los Angeles. WILLIAM H. HARTZELL (5501-883, Ext. 2200), PL. 4-5960. (9-3)

Miscellaneous (Split Shifts)

(Zone 9)

HAWTHORNE BLVD. & 162ND, Lawndale. MARIE VAIL (1810-23, Ext. 2024 or 2025), FRontier 9-2655. (10-9)

(Zone 14)

PRAIRIE AVENUE & MANCHESTER, Inglewood. DOROTHY JURS (6150-221, Ext. 2051). (10-14)

Lynwood

7:00 a.m. — 3:45 p.m.

(Zone 8)

PACIFIC & 11TH STREET, San Pedro. KERMIT M. MILLIGAN (5123-37, Ext. 235), TE. 2-9805. (2-8)

Buy U.S. Savings Bonds via Payroll Deduction

Bright Potential In View For Newly Developed Tool

DEVELOPMENT with great potential is swaging tool indiscussing the ingenious device with Russ Kiefer, jr., supervented by Nelson Harvey, left, Tool Liaison, who is shown visor, Standard Tooling and Development. Portable tool may replace stationary, huge machinery formerly used for swaging; for full details see story beginning page 1, this issue.

(Continued from Page 1)

completed, several Tooling Norcrafters lent a helping hand, notably "Buck" Weaver, Standard Tooling, who developed a controlled in-feed mechanism; Mac McKellar, also Standard Tooling, who worked on the design; and J. P. Whalen and Augie Kelsen, Tooling Machine and Die Shop, who did the necessary work on air gun and dies. (The latter, skilled in die-making, also worked on the Ed deVoss "million-dollar idea" in 1952 — Northrop News, October 22, 1952).

Swaging (pronounced "sway-jing") relates to a type of forging process for cold-forming metal. The operation with which Harvey's development is concerned consists of fastening tiny steel ball terminals to the ends of steel control cables.

Ball and cable are merged by a series of repeated blows until both are literally hammered into one solid piece able to withstand many hundreds of pounds' tension.

Standard practice has utilized large, expensive, stationary machines for swaging—Harvey's invention, weighing less than 25 pounds, can be used on the flight line at a base, doing away with the necessity of sending to factory for cable terminal replacements.

Simplicity of the new tool makes it possible for almost anyone — with even limited mechanical ability — to operate it. It is virtually impossible to do a bad job.

The principle behind the new tool — use of an ordinary Ingersoll-Rand "Air-Buck" AR-26 rivet gun — has been tried by numerous firms in the aircraft industry — and given up as "impossible".

Development of a constant control system for in-feed — in which Weaver played a prominent part — solved the difficulty when Harvey began work on the tool. He had suggested the idea after watching the swaging process on a large rotary swager, and proceeded to develop it with the encouragement of Russ Kiefer, supervisor of Standard Tooling and Development.

Results have been up to expectations. Lab reports show that the tool does a better than average job. In fact, one proof-loading imposed a 1250-pound pull on the swaged terminals — the cable broke, and there still was no apparent effect on the terminals!

A cross-section of the swaging shows that the merging of cable and terminal is so complete that it is difficult to distinguish between the two.

The readily apparent potential of the tool is in the field, but there is also a production-line future for it. On the F-89, for example, there are roughly 18 different types of terminals, with several of each type. Swaging with the new tool takes only about five seconds per part.

Nelson Harvey has been a Norcrafter for about five years. He started as a trainee in May, 1949, bucking rivets in old Department Five, and in 1951 transferred to Tooling.

He is one of three Harvey brothers at Northrop. George also works in the development section of Tool Liaison; John is a night-shift Norcrafter in Sheet Metal Fabrication.

CHORUS SEEKING VOICES; PLANS EASTER PROGRAM

The call is out for voices for the NRC Mixed Chorus! Sopranos, altos, and tenors are especially sought.

Chorus plans to present an Easter morning program for the patients at the Wadsworth Hospital in Sawtelle. Norcrafters interested in singing and in brightening the days of those less fortunate are invited.

Club meets each Wednesday at 7:30 p.m. in the NRC Clubhouse, or call PA&S office, extension 2784 for information.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information in activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Figure drawing and painting each Thursday evening, 7:00 to 10:00.

BOAT CLUB
Elmer Chiodo commissioner
Next meeting Monday, May 3, 7:30 p.m., NRC Clubhouse. Semi-annual Boat Club Dance at NRC Clubhouse May 22 at 7:30 p.m. Memorial Day sailing cruise to Catalina. Three day Denim Holiday."

BOWLING (day)
Chuck Carson, commissioner
Annual Spring Tournament ,Hawthorne Bowl, Sunday, April 25, and May 2. Entries must be in PA&S by April 9. Summer leagues now forming — information available at PA&S. "Bowling Ball" at NRC Clubhouse. Tickets available at PA&S, Plant I and III. Starting date for league is April 14, 1954.

BOWLING (nights)
Tony Cardoza, Commissioner
"Bowling Ball", May 8. Summer leagues now forming. Team entry blanks available at PA&S, Plant I and III. Starting date for league is April 21, 1954.

BRIDGE CLUB
Walt Darby, acting commissioner
Meet 2nd & 4th Tuesday each month. Next meeting April 13, NRC Clubhouse. Start play at 7:30 p.m.

CAMERA CLUB (day)
George Fuller, commissioner
Meet every other Friday, NRC Clubhouse Annex. Next meeting April 16. Combined Print and Slide competition.

CAMERA CLUB (night)
Adam Slusarz, commissioner
Meet every other Saturday evening, NRC Clubhouse. Next meeting April 17, 7:30 p.m.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m , Conference Room T-1.

GEM AND MINERAL CLUB
Art Westermann, acting commissioner
Meet fourth Wednesday of each month at the NRC Clubhouse. Next meeting, April 28, 7:30 p.m. Families welcome.

GOLF CLUB (day
Jim Milne, commissioner
Twilight leagues at Western Ave. and Alondra Park Golf Course each evening Monday through Thursday, beginning April 26 and ending October 1. League captains in charge.

GUN CLUB
Dick Booth, Commissioner
Meet every other Tuesday, 7:30 p.m., NRC Clubhouse. Next meet April 13.

MIXED CHORUS
Ken Schumacher, acting commissioner
Meet every Wednesday evening NRC Clubhouse, Fountain Room, 7:30 p.m.

PHILATELIC CLUB
George Barton, commissioner
Philatelic and Numismatic combined club meets 2nd and 4th Monday each month. Next meeting April 12, NRC Clubhouse, 1:30 p.m.

PLAYERS GROUP
Roger Williams, acting commissioner
Meet every Wednesday evening, at the NRC Clubhouse Annex at 7:30 p.m.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun. May 2, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday.

SALT WATER FISHING
Bill Dean, acting commissioner
The first boat run will be on May 15. Boats will run May 15, June 12, July 17, Aug. 14, Sept. 4. Fishing license can be acquired at PA&S.

SKEET CLUB
Chuck Allen, commissioner
Gun Club, 10:30 a.m. Next Shoot Meet every other Saturday, Long Beach April 17. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKI CLUB
Leonard Smith, acting commissioner
Meet every Wednesday evening 7:30 p.m., at NRC Clubhouse.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be April 19, NRC Clubhouse Board Room.

SOFTBALL
Practice sessions start April 12 Rosecrans playground.

SPORT CAR
Doug Hugill, commissioner
Meet second Thursday each month, NRC Clubhouse. Next meeting April 8, 7:30. April event will be a Sierra Rally Overnite event; Rally Master—H. Hunsberger. Sat. and Sun. May 1 and 2.

SQUARE DANCING
Dave Dyer, commissioner
Meet at Swimms Barn, 15016 Daphne St., Gandera, from 7:00 to 10:00 p.m. Meets 1st 2nd, 4th and 5th Sundays.

SURF FISHING
Ralph Schamp, commissioner
Meet NRC Clubhouse, 7:30 p.m., 1st Tuesday of month. Next meeting May 4.

TOASTMASTERS 212 (day)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, 15516 So. Western, Gardena. All male Norcrafters invited.

TOASTMASTERS 1398 (night)
Eugene Gruber, representative
Meet last Tuesday of month. Next meeting April 27, NRC Clubhouse.

NRC Photo Clubs In Lens Meet

Members of the NRC Camera Club will trek to Anaheim on April 30 to meet the NRC Camera Club at that facility in their second Annual Print and Slide competition. The Anaheim club will play host for this event in the NRC Clubhouse, 1625 South Spadra Road, Anaheim. Judging will start at 7:30 p.m. Entries will be accepted until show time.

Rivalry between the two clubs has been great and winners of the show will receive the coveted perpetual trophy now on display in the NRC Clubhouse in Hawthorne.

Club commissioner George Fuller has announced that a car pool arrangement is being planned for members who wish transportation to the Anaheim facility. For further information contact PA&S office, extension 2784.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Dorothy Hodgson, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BOWLING
Florence Rice, commissioner.
"Bowling Ball" dinner dance, May 8, NRC Clubhouse. Tickets available from all league officers. Spring Tournament and summer league entry blanks now available at PA&S, Plans I and III.

DINNER CLUB
Cathy Waffel, commissioner
Meet once each month.

FLOWER CLUB
Meet second Tuesday of each month, NRC Clubhouse, 7:30 p.m.

GOLF CLUB
New series of golf lessons starting soon. All ladies interested please submit name and department number to PA&S, Ext. 2784.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse.

SOFTBALL
Practice sessions have commenced. Please submit name to PA&S, Ext. 2784.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Tuesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR IRL SCOUT TROOP (MARINERS)
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Howthorne.

TOASTMISTRESS
Peggy Barber, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 to 6:30 p.m. Baby sitting provided if necessary.

BALLET CLASS
Lessons scheduled every Thursday at 8:00 p.m., NRC Clubhouse. $0.50 per person per lesson.

NRC Men Get Top Honors In Redondo Perch Derby

Two members of the NRC Surf Fishing club walked off with top honors last March 21 at the Redondo Beach Rod and Gun Club's Barred Perch Derby. Otto Meier, Inspection, wound up catching the most fish, and Harry Lee, Tool Liaison, took the NRC monthly trophy for catching the largest edible fish—a 2½ pound barred perch.

Ralph Schamp, newly elected club commissioner, has announced that plans are being formulated to train novices in the art of surf fishing, and the club extends a welcome to all Norcrafters, families, and friends.

Club meetings are held the first Tuesday of each month at the NRC Clubhouse, starting at 7:30 p.m. Door prizes, consisting of fishing tackle, are given at each monthly meeting. In addition, fishing trips are made once each month to nearby beaches and members vie for the largest edible fish trophy given monthly by the NRC.

Summer Bowling Loop Schedules Announced

NRC summer bowling leagues will soon be in full swing, and the first pin is scheduled to drop on April 14 when the Mixed Four 625 Scratch league opens at Royal Bowl.

Night shift bowling commissioners Tony Cardoza has set the starting date for after-dark league play for Wednesday, April 21, and tentative plans call for three leagues, as follows: Wednesday morning trio; Friday morning mixed forsome (scratch); and a Saturday morning mixed fivesome (handicap).

League entry blanks—as well as entry blanks for women's leagues (below)—are still available at Personnel Activities and Services, Plant I. Individual bowlers are invited to submit their names, department number, and clock number in addition to their bowling averages.

Florence Rice, NRC Women's Bowling commissioner, has announced that the women's summer leagues are scheduled to start on May 4 at 6:30 p.m. in the Hawthorne Bowl.

Two leagues are scheduled, as follows: eight teams—426 scratch trio; six teams—foursome handicap.

EASTER SUNRISE PROGRAM FOR EQUESTRIANS

Cliff Snudden, NRC Riding Club commissioner has announced that the club ride scheduled for April 18 has been cancelled due to the Easter holiday.

Instead, all members and their families and friends are invited by the Circle-Bar Stables to attend the Easter sunrise services to be held at 6:00 a.m. Music will be provided by the Star Trio.

Following the non-denominational services, there will be a pre-ride breakfast and a 6-hour horseback ride to Long Beach and return. Breakfast will begin at 7:30 a.m. and the ride will start at 8:30 a.m.

Breakfast will be $1.50 each. Total cost per person for breakfast, rental of horse, barbecue luncheon at noon, and food for horse will be $11.00.

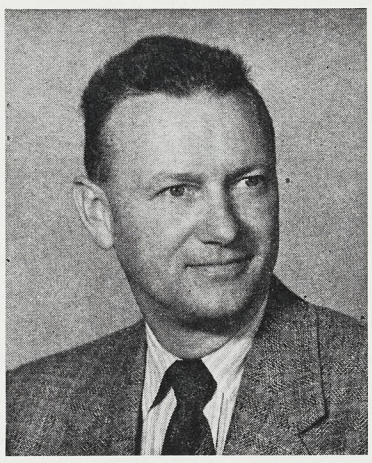
Deadline for reservations is April 14. All reservations must be made through the Circle-Bar Stables.

NORTHROP NIGHT AT PALLADIUM HAS TEX BENEKE

Tex Beneke and his famous orchestra will be featured attractions for Northrop Night at the Hollywood Palladium on April 17.

Special discount ducats may be obtained at PA&S offices at Plants I and III, or from PA&S representatives.

New Stars on NRC Club Rosters



DOUG HUGILL, new NRC Sports Car Club comish, is 11-year Norcrafter and member of Production Engineering department. Doug advises that all Norcrafters are invited. Next meet, April 8. All type cars are accepted.

RALPH SCHAMP, new NRC Surf Fishing comish, is 2½-year Norcrafter from Engineering Test Lab. Ralph's plans for club include instructions for novices and activities designed to interest new members. Families welcomed.

BILL DEAN, new commissioner of NRC Fishing Club —Days, is 3-year Norcrafter from Assembly and Final Inspection department. Bill invites all new members. First cruise will be May 15 on chartered "Kiru", San Pedro.

Clubs Rate Snow Fun Still High

By Joe Cribbs
President
Northrop Recreation Club

Neither rain nor sleet nor gloom of night will keep the staunch members of the NRC Ski Club from their appointed rounds of the best snow spots in the area. At least not until the end of April — they hope. Members are still meeting every Wednesday at the NRC Clubhouse and they have been making trips each week-end — dividing their time between Snow Valley and Big Bear.

Bill Doane, Inspection, reported that his son Bob, age 12, took a second place win in the Berg & Tal Junior races at Snow Valley recently. Bob is a junior NRC Ski Club member and avid skiier.

BOWLERS ! !

Deadline for entries for the NRC Spring Bowling Tournament have been extended to April 9, according to Bowling Commissioner Chuck Carson. Entries may be made at PA&S offices Plants I and III.

★ ★ ★

Exciting events are in order for the NRC Boat Club . . . details will be announced later but May should be a red-letter month for salt-air enthusiasts. Plans are being made for a gala dinner dance on May 22, and the following weekend, May 29 through May 31, a cruise to Catalina is scheduled.

A special invitation is extended to all small boat owners to participate. Two big luaus are planned and the event promises to be an exciting one. Those who do not own boats may reserve bunk space on one of the two large sailing schooners entered in the cruise.

★ ★ ★

It is April again and time for the annual NRC election of officers. It has been a privilege to serve this year as Northrop Recreation Club president, and since this will be my last column, I would like to take this opportunity to thank all those NRC members who have helped make my job an easier and pleasanter one. My special thanks go to all the committees — the Special Events committee, the Ways and Means committee, and the By-Laws committee— the officers who served with me, the club commissioners, and representatives. Their cooperation and assistance never failed. I wish also to express my thanks to the members of the Personnel Activities and Services office who worked so hard to insure the smooth running recreational program. Best wishes for the continued success of the Northrop Recreation Club and to the new officers for the year 1954-55.

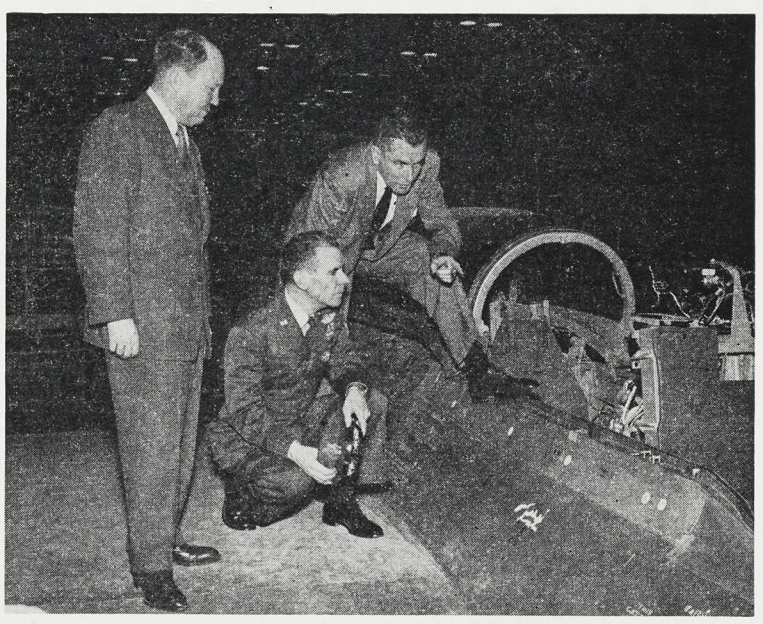
THE Northrop Scene BY DAY AND NIGHT

Clean-up Championship

NIGHT SHIFT leadwomen and supervisors of Department 5507 take their share of Good Housekeeping championship won in February by the department in the continuing Factory division competition. From left, front: Millie Daniels, Gladys Whitener, Edna Butler, June Majesky (all leadwomen); Earl Nickles, general foreman, Major Assembly; Foreman Vern Vanderville; Leadwoman Esther Morris; Gary Hard, making presentation; Mina Randall, leadwoman; Harold Plymale, assistant foreman; Dovie Williamson; Assistant Foreman Carl Engstrand; Leadwomen Eleanor Craig and Helen Smith; and Assistant Foremen Carl Lites and Carl Linder. Left to right and up: Leadwomen Louise Hogwood, Jo Cushman, Ruby Lowry, Jo Halberg, Thelma Stephen, Marjorie Smith, Eleanor Wrynn, Anna Avery. Runners-up in the competition were departments 5221, 5510, and 5819.

DAY SHIFT leadwomen and supervision of Electrical and Instruments (5507), winners of the Factory division's Good Housekeeping award in February. From left: Ellen Barnes; Ole Omley, assistant superintendent, Major Assembly; Margaret Osborne; Thyra Maybee; Karl Kiland, assistant foreman; Frances Ford; Katie Collins; Hedy Tremblay; Hazel Battershell; Dave Trimble, department head; Lila Jacobs; Gary Hard, coordinator of program; Margaret Daniel; Marjorie Morrell; Thelma Johnson; Mildred Siratt; Alice Runser; Mildred Schmidt; Ruth Miller; Lestina Mason; Ruth Bateman; George Purrsselley, and Doc Westbrook, assistant foreman. Department had previously won several sectional honors.

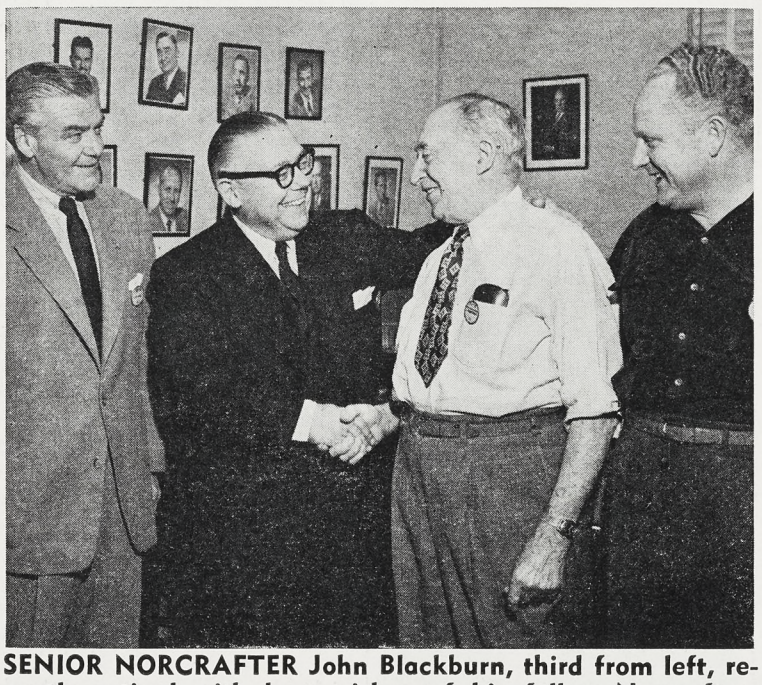
Distinguished Defenders



FIRST HAND VIEW of F-89 cockpit is afforded Major General Walter E. Todd, center, by Northrop Vice President John R. Alison, left, and Gil Nettleton, director of Military Relations. Todd, commanding general of the Western Air Defense Force, led a group of Defense Force officials from Hamilton Air Force Base on a mile long tour of the Hawthorne plant. Group was shown advanced methods here.

ALASKAN SCENE shows General J. H. Atkinson, commander in chief of the Alaskan Command, trying out the RO's station in Scorpion. In pilot's seat is Colonel R. L. "Doc" Gould, special assistant to Major General George R. Acheson; and on wing: Major J. V. Beckett, chief of fighter operations, Tenth Air Division. Scorpions are based at Elmendorf AFB, where Hank Waklee and Don Brennan are tech reps representing Northrop. For another photograph showing Alaskan Scorpion operations, see photo on page 1.

Life Saver



SENIOR NORCRAFTER John Blackburn, third from left, recently retired with best wishes of his fellow Norcrafters ringing in his ears. Wishing him Godspeed at occasion photographed were Charles Boyle, manager, PA&S; John B. Clark, director, Industrial Relations; and Joe Cribbs, NRC prexy. Clark called Blackburn "one of finest Norcrafters" of his acquaintance, and lauded his contribution as an inspector to the progress of Northrop. NRC made John a life-member, and he now, like other senior Norcrafters, has Northrop News life subscription. Blackburn lives in Gardena.

SAFETY AT 70° BELOW zero is insured by thin wire shown above. John Miller, leadman, Electrical Group, Development Test Lab, nights, second from left, received Suggestion Award check from Chuck Shelly, supervisor. George C. Putnam, Suggestion Plan representative, left, holds safety wire with Ben Knell, Safety representative. G. F. Younkin, assistant supervisor, center, voices approval. Pull-apart wire is broken by men in cold chamber when in trouble, ringing Test Lab control room bell. (See News story on page 6.)

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, April 21, 1954

Scorpion Autopilot

(See story, Page 4)

PALMDALE DELIVERY IN MAY

NRC Prexies—Old, New

MR. PRESIDENT—Joe Cribbs, left, outgoing NRC president, introduced newly elected prexy Joe Carver to officers, commissioners, and representatives gathered at NRC Clubhouse on April 10 for annual NRC election of officers. Marie-Louise Sauer, outgoing Club secretary, faces camera on left. Jack Akin, NRC representative and management Club prexy, watches at lower right. Backs to camera: Nina Shannon, Knitting Club comish, Eldon Burgess, Skin Diving comish.

NRC Elects Joe Carver '54 Prexy

By NRC REPORTER

Northrop Recreation Club officers, commissioners, and representatives gathered on Saturday, April 10, in the NRC Clubhouse to conduct the annual election of officers.

New NRC president for the 1954-55 season is Joe Carver, 13-year Norcrafter and member of the Cost Estimating department. Joe was popular NRC vice-president during the 1953-54 term and former Flying Club commissioner.

Hal Hunsberger, former Sport Car Club commissioner and NRC representative, will be the new NRC vice-president. Hal is a five-year Norcrafter and a member of the Production Engineering department.

Newly-elected NRC secretary is May Hawkins, three-year Norcrafter from the Civil Defense office. May will continue to serve in her present capacity as Mariners representative in addition to her new secretarial duties.

Don Danner, six-year Norcrafter from Instrumentation Equipment and Test department, is new NRC treasurer. Don is former NRC sergeant-at-arms and was Riding Club commissioner for four years.

(Continued on Page 2)

ARMED FORCES DAY "OPEN HOUSE" CELEBRATES PRODUCTION FEAT

All-out production—major assembly and preparation for production flight—at Palmdale facility will result, early in May, in delivery of the first "D" airplane from the new base to the Air Force, it is announced by Kenneth P. Bowen, vice-president, Manufacturing.

The Air Force delivery, somewhat in advance of anticipated schedules, will headline Palmdale's celebration of Armed Forces Day, Saturday, May 15.

(For illustration of fast tempo achieved since first whistle at Palmdale by crack Scorpion crews—see Northrop News pictures and story published Wednesday, 10 March 1954.)

Marking the occasion, Palmdale Norcrafters will hold an "Open House" for dignitaries of surrounding communities, top Air Force and Company officials, Northrop folk, and their families.

Overall coordination of the ceremonies is being carried out by Public Relations, working with Industrial Relations and Manufacturing division Norcrafters of both Hawthorne and Palmdale.

Busy Palmdale has taken on the look of a beehive recently with deliveries to date of five airplanes. These will presently be supplemented by four others.

Completion of the above airplanes will end trucking of Scorpions to the Antelope Valley base and fly-in deliveries will begin early in June, it is announced.

Considerable progress is reported on ramps around the buildings and on connecting air strips—which must be completed before fly-in may be accomplished.

Forms have already been installed on the ramps and pouring of concrete has begun. Runways connecting with the main airport facility are now partially completed.

Transfers of personnel are being accomplished smoothly as needed, according to company officials.

The neat new cafeteria is now operating and the new Northrop hospital is open under jurisdiction of the Medical department's Jennie May Alexander, R.N.

Overload Assembly Work Transferred to Anaheim

Several phases of fabrication and assembly work in both Scorpion and Special Weapons projects will be transferred from Northrop-Hawthorne to the Anaheim Division, it has been revealed by Division Manager R. R. Nolan in a letter mailed to all Anaheim Norcrafters' homes.

Mutual benefits to both facilities will accrue from the new arrangement, serving to offset the present dip in work load occasioned by the reduction in production of fire control instruments. A reasonable work load is thereby maintained at Northrop-Anaheim as new projects now in bidding materialize.

Northrop-Hawthorne benefits at a time when it has an overload of work suitable for Anaheim.

Finally, cooperation beween the Ordnance Corps and Air Force in making the arrangement reflects overall unity of the Armed Forces in utilizing government facilities for the maximum benefit to national defense.

In addition to the work from Hawthorne, Nolan's April 15 letter outlined an impressive variety and volume of other work already contracted. Of particular interest in this category is current work on a complex valve for an Army Ordnance missile, plus negotiations with Bureau of Ordnance, Navy, for possible rockets and other work for the Navy at Anaheim.

Daylight Saving Time To Begin---Sunday, April 25

Sun worshippers, golfers, home gardeners, and after-work sportsmen will receive their yearly bonus of extra hours of sunlight come Sunday, April 25.

Officially, Daylight Saving Time plan goes into effect at 1:00 a.m., when all clocks should be turned ahead to 2:00 a.m. However, the actual time turning ceremony is optional and most Norcrafters will probably set their clocks before retiring on Saturday night.

Day-shift Norcrafters will reap a harvest of sixty additional minutes of sunshine for their after-work use.

The night-shift Norcrafter, however, will probably only notice a slight change in the temperature. It may be a little cooler in the morning when he gets up and possibly a little warmer than usual when he goes in to work.

At any rate, Daylight Saving Time will be with us now until all clocks are switched back on the last Sunday in September.

Florida Mission

USAF Northrop Contracting Officer John Burns, second left standing, visits Company facility at Patrick for survey of contractual work. Hawthorne tour party, photographed shortly after donning life jackets in preparation for over-water flight, shows—front: William Anderson and Jack Wells, pilots, and W. L. Bickel, crew chief. Standing, from left: Myron Calkins, Property Administration; Burns, Don Vivrette, manager, Contract Administration; John B. Clark, director, Industrial Relations; Andy Anderson and Jack Cushman, Florida Norcrafters acting as hosts; Don Cavanaugh, Contract Administration.

Spring Bowling Tourney Ends in Blaze of Glory

NRC Elections

(Continued from Page 1)

New NRC sergeant-at-arms is Glen Jackson, former Toastmasters 212 president. A member of the Time Standards department. Glen is a two-year Norcrafter.

Following the election the Club members joined the NRC Auxiliary in the main hall of the NRC Clubhouse for dinner and entertainment. Joe Cribbs, outgoing NRC president, hosted the event and introduced the newly-elected officers.

Keynote speaker for the evening was John B. Clark, who spoke on the history and highlights of the NRC program through past years.

After-dinner entertainment was provided by Arthur Knight, noted hypnotist, who gave a demonstration-lecture on hypnotism.

NRC Officers Balloted

MAY HAWKINS

GLEN JACKSON

DON DANNER

Wind-up of the Spring Bowling tournament will be a gala dinner-dance—the First Annual Bowling Ball — to be held on May 8 at the NRC Clubhouse. At this time NRC awards will be presented to all Spring Bowling Tournament winners.

Tickets may be purchased from NRC bowling league officers. Dinner will start at 7:30 p.m. and price for the prime-rib dinner and the dance will be $3.25 per person — dress will be informal.

Dance rhythms will be furnished by Byron Harkins and his orchestra (courtesy of the Northrop Recreation Club).

Highlight of the event will be the door-prize drawing which will entitle the lucky winner to an all-expense paid week-end for two on Catalina Island.

Master of ceremonies for the occasion will be Al Bine, bowling editor for the Los Angeles Examiner. Invitations have also been extended to bowling notables including: Harold Lloyd, silent movie actor and bowling enthusiast; Bryan Jacobs, secretary of the Los Angeles Bowling Association; Edna Cobb, secretary of Los Angeles Women's Bowling Association; Ralph Sewell, president of Los Angeles Bowling Association; Al Cole, public relations director of the Brunswick-Balke-Collender Company; Don Snyder, bowling editor of The Bowling News.

All bowlers, their families, and friends are invited to attend.

Dude Ranch MC Meeting Scheduled

Palmdale and Edwards supervisors are now in the process of forming a Management Club which will be a joint venture of the two facilities.

First planning meeting will be held Friday evening, April 30, at the Antelope Valley Dude Ranch, near the community of Quartz Hill.

Principal speaker of the evening will be Kenneth P. Bowen, vice president, Manufacturing.

Charles Bradford, editor, Northrop News, and past president of the Northrop Management Club, will discuss factors involved in forming such an organization.

Bill Renison, Palmdale Operational Services chief, will act as temporary chairman until such time as officers are duly elected.

HAL HUNSBERGER

NEXT WEEK IS CHILD SAFETY

MRS. CLYDE PLOWMAN – CHAIRMAN

Norcrafters throughout the plants will be joining in heartily with all Californians in the drive next week to make home safer for little children.

Governor Goodwin Knight has proclaimed the period from April 25-30 "Child Safety Week", and Safety - Conservation forces at Northrop have volunteered to spearhead the drive to disseminate the "good word" to all Norcrafter homes.

Last week Mrs. Geraldine Plowman, wife of Clyde Plowman, Paint Shop, nights, was named Honorary Chairman of Northrop Child Safety Week. She was scheduled to attend, as the representative of safety-minded Norcrafters, the movie premiere of "Mrs. Hazard's House", child safety movie, shown to a select audience last Monday.

Mrs. Plowman, mother of five tots, has those five big reasons for observing home safety; four of the children, all five years of age or younger, are at home with her now on Hawthorne's East 137th Street—the fifth, six-year-old Mary Lou, is with her grandmother in Dubuque, Iowa, the unfortunate victim of a case of measles contracted there just as the rest of the family was moving West!

In promoting the drive to make the home safe for children—and therefore for adults, too—the S-C committeemen and department clerks, with the hearty endorsement of supervisory Norcrafters, are distributing to the entire plant personnel a home safety check list issued by Prudential Insurance Company.

The check list will sharpen the search of Norcrafter parents and grandparents—and friends of the growing generation—for the common hazards located in the home.

Theme of the check list is "Protect the Infant, Teach the Older Children". The theme has been featured at S-C committee meetings recently.

The committeemen feel confident that Norcrafters, who have set an excellent record of safety in the aircraft manufacturing field, will have the necessary know-how from plant experience to install worthwhile safety practices in the home for the protection of the "small fry".

FOUR BIG REASONS—of five—which Geraldine Plowman has for concentrating on home safety practices—Jackie, 5; Ricky, 1; Billy, 3; and Carol Ann, 4. Fifth reason is Mary Lou, 6, who is in Dubuque, Iowa, with measles! Mrs. Plowman, wife of Clyde, Paint Shop, nights, is Honorary Chairman of Child Safety Week at Northrop, April 25-30. Safety Conservation committeemen are heading drive to bring safety into the home with helping hand from department clerks.

Blood Bank For Plant 3 Next May 5

The Red Cross Mobile Blood Bank will visit the Hawthorne plants on May 5 — they will be stationed at the NRC Clubhouse — for the regular quarterly visit to replenish Northrop Blood Bank credit.

Blood donors this time will be called from the Crenshaw area exclusively, other sections of the plant having had their turn during previous visits. Donor sign-up cards may be obtained from department clerks. Norcrafters are urged to contact their clerks at an early date in order that the list of available donors will be completed by the time the Mobile Bank arrives.

Transportation between Plant III and the NRC Clubhouse will be provided by Personnel Activities and Services. Details will be arranged at the time the donor is notified of his appointment hour.

Calls for Norcrafter blood donations have always received enthusiastic response and donors, their families, and fellow-workers have reaped the benefits of this blood "bank account" in times of emergency.

One heart-warming example of this give and take system is illustrated in a recent letter received by Personnel Activities and Services.

The letter reads as follows:

"A few weeks ago it was necessary that my mother undergo a very serious and dangerous operation. When told that a great many blood transfusions would be necessary and many of my coworkers had offered to donate blood, someone suggested I contact Personnel Activities. I cannot tell you how thrilled we were to learn that Northrop maintains a Blood Bank for Norcrafters and their families.

"Without transfusions my mother would not have survived, and tho' I find it hard to put into words how deeply grateful we are, I hope this expresses in some small way the heartfelt thanks of my mother, family, and myself for this very wonderful service."

Sincerely,
A Norcrafter

Norcrafters who need blood for themselves or their families may contact Personnel Activities and Services, extension 2784, or. in an emergency, simply notify the hospital that as members of the Northrop Blood Bank they are entitled to draw from that account.

Buy Savings Bonds

TOASTMASTERS DINNER HELD AT ELKS CLUB

The Elks' Club, Inglewood, was the scene of the April 9 officer installation dinner of Northrop Toastmasters Club #212.

Newly elected officers are: Ernie Boren, president; Doug Johnson, vice-president; Bill Steffen, secretary; Ed Seyfried, treasurer; and Bert Cook, sergeant-at-arms.

Henry Cooper, newly elected deputy governor, will not assume office until July.

Toastmasters' wives were present at the dinner and a surprise innovation was introduced when several of them were called upon to speak extemporaneously. Oleta Boren, wife of Ernie Boren, was voted best impromptu speaker.

Northrop News

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CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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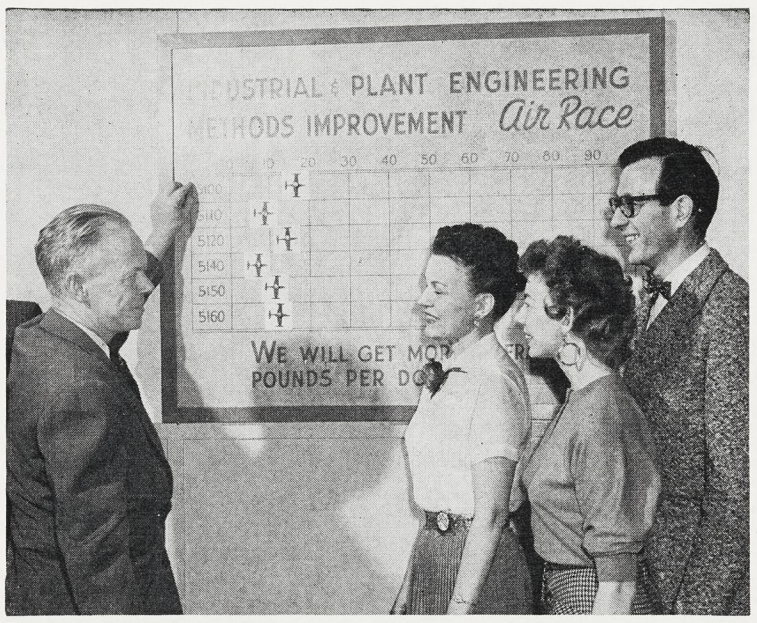


"AIR RACE" standings in Industrial and Plant Engineering inter-departmental competition to eliminate duplicating functions are studied by "Hap" Herdrich, left, assistant manager of division and chairman of committee; Mayme Colombo, Operations Analysis; Kitty Santoro, Facilities and Expenditures Control; and Fred Kratz, Program Planning. Standings shown in photo were posted shortly after start of race.

More A F per $ $ $ Race In Industrial Engineering

More than 1000 Industrial Engineering Norcrafters are currently engaged in spirited competition among their departments to see which—by improvement of methods—can contribute "more airframe pounds per dollar" to the Norcrafter team effort.

Conceived as the result of a "duplication-elimination and methods improvement" program originated in the office of K. P. Bowen, vice-president of Manufacturing, and carried into the division by B. R. Bonnett, manager. the program showed several hundreds of dollars saved in the first month's operation alone.

A chart prominently displayed in the division shows the progress of the various departments in the competition, which is called a methods improvement "Air Race".

Heading the committee in charge of the "Air Race" is H. E. "Hap" Herdrich, assistant manager, Industrial and Plant Engineering. Committee members are: Bud Blair, Stu Plummer, Mel Riggs, Tom McCarthy, and Carl Raker.

The committee meets twice monthly to consider the suggestions made by division Norcrafters; a number are now under consideration.

"The program is one of self-analysis," Herdrich points out, "and does not duplicate existing programs in the plant. The good ideas personnel are coming up with save dollars by saving material, manhours, space, and equipment."

Technical Know-how Here

ENGINEERING MANUALS take shape under deft hands of the group pictured above, thus relieving duplication of work by issuing departments. Girls of the Manual Distribution Center pictured above are, from left front row: Marion Gamble; Pat Hauser; Josephine "Jo" Payetta. Center, from left: Faith Plaster; Dolores Klugel. Back row, Dolores Bower; Terry Green; and George H. Peterson, staff assistant, Engineering Services. This group is supervised by R. T. "Dick" Strawn. Center also services outside Northrop facilities.

CREDIT UNION EXTENDS CREDIT TO AUTOMOBILES

Members of the Northrop Credit Union may finance purchase of an automobile, refinance vehicles presently owned, or obtain loans on their cars, according to a new ruling by the organization, it has been announced by Walter T. Gage, treasurer of the Credit Union.

Maximum maturities on vehicles are as follows: one year is allowed on 1950 models; 18 months on 1951 and 1952 automobiles, and two years on 1953 and 1954 cars.

Length of service necessary to qualify for such loans is three years past employment. Easy repayment through payroll deductions is a benefit familiar to members of the credit plan.

Reference Manual Center Service for Engineering

Designed to relieve the tasks of various manual issuing agencies, an hitherto unsung group of Norcrafters has been quietly shouldering the responsibility of compiling, storing, collating and distributing Engineering reference manuals since July of 1953.

The group, known as the Manual Distribution Center, is a part of Engineering Files, supervised by R. T. "Dick" Strawn.

The group compiles and issues important publications as Process, Standard, Drafting Room, Design, and Materials handbooks —thus relieving individual departments from duplication of effort formerly necessary when such handbooks were published.

All revisions to these manuals are now routed through the group and all obsolete material is routed back to the center to be checked out.

Careful checking of distribution-lists is only one of the group's many tasks, enabling them to supply manual material "on time", and "currently up to date".

Long range plan of Engineering Services, of which the group is a part, is to have Engineering Files the focal point whereby any Engineering paper required may be obtained at the one location, according to Pat Hauser, lead-girl of the group.

Wedding Tradition

"SWEETS FROM THE SWEET" was paraphrased statement of bridegroom David B. Jenkins, Purchasing, New York City office, when fed wedding cake by his bride Mildred Marie Lev, formerly of Materiel, Florida facility. Photo was after ceremony at First Methodist Church, Titusville, Florida. Couple will now vacation-honeymoon at Sea Island, Georgia.

Down . . . . . Range

Noon hour practice on greens near Crenshaw Boulevard has brought unusual golfing proficiency to Max Tennigkeit, coordinator, Quality Control Planning—enough that he killed a ring necked dove with 120 yard pitch recently

H. J. "Bud" Swartz, Program Planning, has been requested by H. W. Thue, Douglas Santa Monica, general chairman of SAE autumn Aircraft Production Forum, to serve as chairman of the electronics panel at the October conference . . . with W. R. Urlovic, Manufacturing Staff, as recorder-secretary . . . General Oliver P. Echols is sponsor of annual meeting this year.

C. J. "Chuck" Gilbert, former assistant base administrator at Edwards, is rapidly recovering from a recent illness and will return soon from Missouri to his new post of base administrator, LAX . . . Gilbert's promotion has resulted in Ralph Friesen's being chosen assistant base administrator at Edwards. Hardy Jones was also promoted at the same time to assistant foreman at the desert base.

Stan R. Murnane, Northrop Structures engineer, was elected president, Westchester Junior Chamber of Commerce,

STAN MURNANE

April 7. . . . Stan's first official act was to aid sponsorship of a contest wherein anyone may enter a design for an emblem of the Westchester community — ten prizes will be awarded for best entries . . . winning design to be used by all area organizations to attest their being located in the above community.

H. E. "Hap" Herdrich and Tom L. McCarthy, Industrial and Plant Engineering, will be featured speakers at April 30 SAE Aircraft Production Forum meeting in Dallas. . . . Herdrich speaking on "Production Control Techniques", and McCarthy talking about "The Engineer and the Part He Plays in Reducing Costs" . . .

Dollar and manpower figures are now at an all-time high at Northrop with contract backlog pegged at $557,000,000 and total Norcrafter employment listed at 24,169, according to month-end figures of March 31, 1954 . . .

DESERT STAGES COLOR RIOT FOR SUNDAY DRIVERS

Sunday drivers and Camera Club members will find the desert attractive with thousands of wild flowers in full bloom. Joshua trees around Palmdale are blossoming — an event which happens only once in two years.

F-89D AUTOPILOT

MOST MODERN AVAILABLE

By AIREPORTER

As an all-weather interceptor, the F-89D contains many mysterious "little black boxes" enabling the pilot to do his job more efficiently, and perhaps most important is the E-11 Autopilot. This component, built by the Aeronautical Division of Minneapolis-Honeywell Regulator Company, will be installed on subsequent Scorpions including some already delivered.

Befitting the nation's top all-weather aircraft, the E-11 is the most modern autopilot on the market. Many performance advantages are gained by having such an autopilot for the Scorpion.

First, and foremost, it stabilizes the airplane. Like the designers of all other aircraft that fly near the speed of sound, the engineers of the "Grand Slam" Scorpion had to sacrifice some of the airplane's natural stability in order to reach the speeds demanded of today's jet aircraft. The E-11 replaces this lost stability through tubes and motors. As a result, the pilot is relieved of the tedious work of maneuvering the airplane. The autopilot does it for him and the pilot can arrive at a target area more alert and "ready for battle".

The device provides constant altitude control, which means the pilot can select his best cruising altitude, push a button, and hold it. The result is greater fuel economy and thus increased range for the "D".

Another feature is the provision for automatic approach. The Scorpion flies in all kinds of weather; therefore its pilots can expect to be in the air many times under instrument conditions. After a tough mission, a blind landing is no picnic even with help of friends on the ground. The new automatic approach control enables the pilot to automatically follow an ILS beam all the way to the ground. He can monitor his approach without having to go through the intense concentration required to follow the ILS needles manually. The F-89D is never weather-bound when thus equipped and has many other advantages.

To enable the Scorpion to perform equally well at any altitude and any airspeed, the device has altitude and airspeed compensation. The amount of surface deflection needed to perform a maneuver at 500 mph at 35,000 feet is more than that needed for the same maneuver at 10,000 feet. Altitude and airspeed scheduling means that the E-11 will never over- or under-control when a turn, bank or dive is required.

An important feature is provision for tying into the fire control system. By coupling the fire control system and the autopilot, the F-89D becomes an automatic weapon of awesome proportions. Once "locked on" to the target, it never lets go.

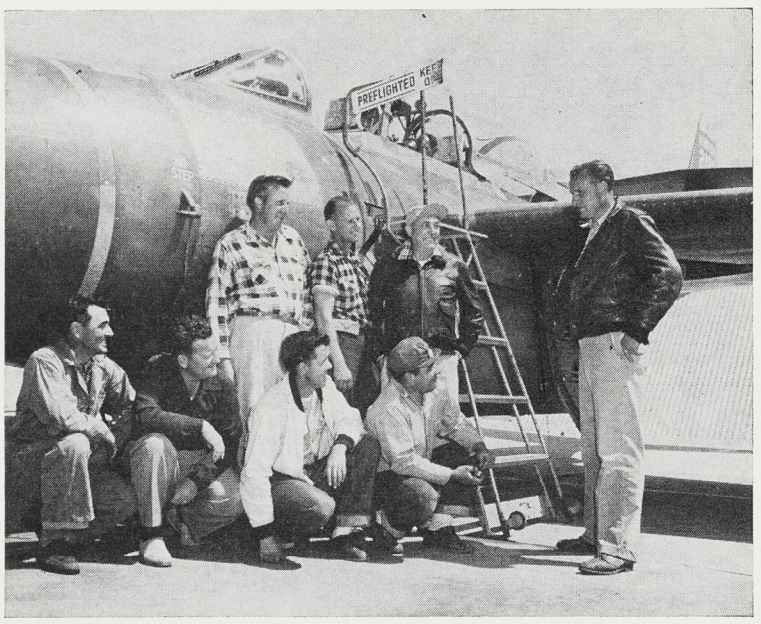
Four gyros are employed, so installed that any random movement of the aircraft is instantly detected. Once the autopilot is engaged, any movement of the rudder, elevator or ailerons is caught by the gyros which send out a signal whose strength is proportional to the amount of movement. This signal is amplified and sent to motors which return the surface controls to their correct positions. In actual practice, these corrections are made several times a minute and, in most cases, the pilot is unaware of them.

RAILROADERS TO MEET AT NEW DEPOT—BUILD BW

The NRC Model Railroad Club is now located in new quarters at 4411 West Redondo Beach Boulevard (three doors from Hawthorne Boulevard) and the "gandy dancers" are in full swing rebuilding the club's Baldwin and Western Railroad, according to commissioner Gene Boggess.

Club meetings are held each Thursday evening from 7:30 until 10:00 p.m. All interested Norcrafters are invited.

For details contact Personnel Activities and Services, Ext. 2784.



FIRST AUTOPILOT SCORPION and Ontario facility crew which had just pre-flighted it for first radar check flight were photographed as Al Eilts, crew chief, gave word to Norcrafter crew. From left, front: Harold Kay, M. C. Hancock, Jean Benson, Manual Marinez. Back: Charles Simons, Cliff Harrell, Horace Greer. In cockpit, RO C. E. Gwinn.

Keeping news pace with the ever-increasing expanse of Northrop Aircraft is today a monumental assignment. Rapid growth of personnel count, addition of new outlying facilities and the forward movement of the established ones, plus the hundreds of happenings of daily interest that take place within our city of over 24,000, must sometimes of necessity create a temporary backseat for old established homey news specials.

Stork Club is one of these, but this issue we're making up for lost time. (Editor's Note)

Happy Sunday

Born to Jesse Huhn, Raw Stock-nights, and wife Jo Ann—son Bradley Scott, on 15 November 1953 . . . time, 3:00 a.m. . . . weight, 9½ pounds . . . at Los Cerritos Hospital.

Albertson Arrival

Daughter Constance Louise—born on 6 December 1953 to Dick Albertson, Vendor Assembly Rework, and wife Connie . . . time, 12:11 a.m . . . weight, 4 pounds 8 ounces . . . at Hawthorne hospital.

Colson Cutie

Born to Robert D. Colson, Tool Machine and Die, and wife Dorothy—daughter Kathy on 22 January 1954 . . . at Rose hospital . . . weight, 6 pounds 6 ounces . . . time, 6:06 p.m.

Robertson Pride

To Leroy Robertson, Plastic Shop, and wife Dorothy—daughter Cheryll Lynn on 6 January 1954 . . time, 8:30 a.m. . . . at Torrance General Hospital . . weight, 7 pounds 3 ounces.

Little Laura

Laura Jean—born 15 December 1953 to W. V. Maki, Missile Sub-assembly, and wife Berniece . . . weight, 6 pounds 10 ounces . . . at Inglewood General hospital.

Happy Greys

Born to Andy Grey, Production Planning, and wife Ramona—son Andrew Robert on 27 January 1954 . . . time, 12:40 a.m. . . . weight, 8 pounds 15 ounces . . in Methodist hospital

Theresa Anne

Born to Leon R. Monger, Radar and Radio, and wife Agnes—a daughter Theresa Anne on 7 January 1954 . . . at Culver City hospital . . . weight, 5 pounds ½ ounce . . . time, 1:20 a.m. . . . Grandfather is Bill Monger, Palmdale facility.

First Boy

Peter Morris born 21 January 1954 to Leon Morales, jr., Test Fixture Development Lab, and wife Ellen Jean . . . at Seaside hospital, Long Beach . . . weight, 5 pounds 12 ounces.

David Apple

Born to Joseph Apple, Loft and Tooling, and wife—son David Allen on 3 April 1954 . . . at St. Mary's hospital, Long Beach . . . weight, 9 pounds 2 ounces.

Juvenile Jeffcoat

Douglas Alan—son of Jack Jeffcoat, Wage and Salary, and wife Caroline—born 20 March 1954 . . . in Hawthorne Community hospital . . . weight, 9 pounds . . . time, 5:42 p.m.

Baton Fame to Daughter Of Patrick Missile Man

JOYCE MAIR, baton-twirler par excellence.

There is a glint of pride in the eye, and a slight puffing of the chest, when Florida Norcrafter Sidney Bice (Maintenance department), or his wife, is questioned about daughter Joyce Mair, or her brother Norman, according to a biographical research by Peggy Willis, Industrial Relations, Cocoa facility.

Daughter Joyce has won a roomful of trophies and a chestfull of medals according to Northern baton twirling rules and with her brother is now challenging the Southern school of drum majoring, which differs considerably.

In the north, techniques concentrate on two categories — twirling and strutting, and as a rule drum majors or majorettes specialize in one or the other. Southern masters of the skill insist on proficiency in both categories.

Joyce has specialized in precision work "a la militaire" and has been trained to stand within a square foot of space to master the technique which has made northern majorettes famous as "twirlers." She includes a great deal of aerial work in her routine and works to a fast tempo, allowing no time for breaks in the music, putting no emphasis on footwork and introducing none of the majorette techniques which border on ballet or modern dance patterns.

Joyce took the Connecticut state championship four consecutive years and in 1948-49 went to the New England district competition and walked off with the top honors for the entire conference.

In 1947, she represented the "Yankees" in a nation-wide competition at St. Paul, Minnesota, placing fourth in the finals. In 1949, she was invited to the state-wide contest that would result in the winner being chosen to compete as "Miss Connecticut" in the "Miss America" competition in Atlantic City. In the over-all point system she was third in the finals, but in the talent division she led the entire state.

Sponsored as a contestant in the Horace Heidt search for talent, she was booked for a series of personal appearances with Horace and his Musical Knights. Later she did television shows in New York City and was guest of Ted Mack on one of his programs.

Joyce studied her "twirling" in Hartford, Connecticut, and plans to take some "graduate work" in Miami, to study the strut and dance technique so popular in the southern states. (California, too—Ed. note).

Meanwhile, since moving to Florida two years ago, brother Norman, himself a champion in New England, and Joyce are making public appearances in a thrilling and unusual duo-baton act.

It's a Girl

Born to John Coulter, Test Fixture Engineering, and wife Jo Ann—daughter Cynthia Anne on 26 January 1954 . . . time, 7:30 a.m. . . . at Seaside hospital, Long Beach . . weight, 6 pounds 10 ounces

Kinder Kinder

Norton Kinder, Art Department, and wife Lee are the proud parents of first child, Kenneth Michael. Little Mike was born in Los Angeles Methodist hospital on 24 February 1954 at 1:10 a.m. He weighed 7 pounds 13 ounces.

Rashids Rejoice

Born to Joseph G. Rashid, Electro Mechanical Design, and wife Lee—son William Joseph on 29 March 1954 . . . at Seaside hospital, Long Beach . . . weight, 7 pounds 11 ounces . . . time, 4:30 p.m.

Al Coco II

Al Coco, Machine Shop, and wife Sara are happy to announce the birth of Alfred Dan II. Little Al was born on 9 March 1954 at 1:30 p.m. in the Centinela hospital. Jo Ellen, age 5, was happy to welcome her 8 pound brother.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 1)
BEVERLY BLVD. & WESTERN, Los Angeles. SAMUEL COHN (5585-503, Ext. 1381), NO. 9124. 12-1

SANTA BARBARA & ARLINGTON. (Route: Arlington, Slauson, Crenshaw, Manchester, to Prairie), Los Angeles. ARTHUR MORTENSON (5354-60, Ext. 561), AX. 3-3031. (12-1)

(Zone 2)
VERMONT & SLAUSON, Los Angeles (37). CAROL J. PHELPS (5241-22, Ext. 1271), TW. 3293. 12-2

(Zone 4)
WHITTIER area. (Route: Imperial or Rosecrans). B. BLANKENSHIP (5336-11, Ext. 1978), OXford 60787. 12-4

(Zone 5)
ROSECRANS & STUDEBAKER ROAD, Norwalk. FAYE E. WOLFF (7310-90, Ext. 523), TO. 45826. 12-5

ROSECRANS & BELLFLOWER BLVD., Bellflower. Route: Rosecrans, Alameda, Firestone, Prairie. A. C. SIEGFRIED (5501-107, Ext. 2200), TOrrey 6-3588. 12-5

(Zone 6)
SANTA FE & WILLOW, Long Beach. ROY AUSTIN (5806-101, Ext. 533). (12-6)

(Zone 9)
HAWTHORNE BLVD. AND 162ND ST., Lawndale. GILBERT E. TERRELL (5584-14, Ext. 1382). 12-9

(Zone 10)
PIER AVENUE & SEPULVEDA (Will join car pool), Hermosa Beach. JAMES W. JONES (5544-52, Ext. 2645), FR. 2-3129. 12-10

MANHATTAN BLVD. & 22ND ST., Hermosa Beach. JAMES SIMS (5544-171, Ext. 2645), FR. 4-9802. 12-10

MANHATTAN BEACH BLVD. & HIGHLAND AVE., Hermosa Beach. VERNA J. OVERHOLTZER (5373-68, Ext. 537). 12-10

PIER AVE. & PACIFIC COAST HWY. (Would like 4 riders from that vicinity), JOE AVILES (5587-164, Ext. 3750). (12-10)

(Zone 12)
MAIN & BROOKS or Lincoln & Venice, Venice. RAY KIEFT (5538-38, Ext. 525). 12-12

(Zone 13)
VAN NUYS & NORDHOFF, Pacoima. LESLIE N. WILLIS (5503-24, Ext. 2680). (12-13)

(Zone 14)
GLENOAKS & SUNLAND BLVD., Sun Valley. R. L. RICKARD (5234-20, Ext. 1981), CHase 7-8296. (12-14)

7:30 a.m. — 4:15 p.m.

(Zone 5)
BELLFLOWER & SPRING (Lakewood), Long Beach 15. DORIS S. SPECHT (3142-90 Ext. 650). L.B. 390-859. 13-5

(Zone 8)
CRENSHAW & COMPTON, Gardena. R. A. MAGIN (3530-147, Ext. 1927), ME. 9-3760. (13-8)

(Zone 9)
PACIFIC COAST HWY. & HAWTHORNE BLVD. (Would like to join a car pool), Torrance. J. D. ADAMS (3530-17, Ext. 423 or 463). 13-9

PACIFIC COAST HWY. (Riders wanted area north of Redondo Beach Blvd. between Hawthorne and Inglewood), Redondo Beach. K. J. HARTMAN (5112-32, Ext. 1475). 13-9

(Zone 13)
SHERMAN WAY & RESEDA BLVD. (Route: Sepulveda Blvd. or Van Nuys and Beverly Glen Blvds.). WALLY ROBINSON (5920-115, Ext. 2612 or 2613), DIckens 3-9863.

(Zone 14)
CRENSHAW & 43RD, Los Angeles. GRANVILLE GILMORE (5127-79, Ext. 2747), AXminster 1-0869. 13-14

FLORENCE & CRENSHAW, Los Angeles. CHARLOTTE WOOLUMS (9320-21, Ext. 1416), PL. 3-7484. (13-14)

3:45 p.m. — 12:15 a.m.

(Zone 8)
SAN PEDRO (via Western), San Pedro. R. HETHERINGTON (5806-461, Ext. 533-1208), TE. 3-6814. 16-8

(Zone 14)
HOLLYWOOD & LA BREA, Hollywood (28). HOWARD J. GENSLER (5710-256, Ext. 508), HO. 3-7137. 16-14

RIDES OFFERED

4:45 p.m. — 1:15 a.m.

(Zone 2)
SUNSET BLVD. & ECHO PARK AVE. (Route: Sunset Blvd., Alvarado, to Western), Los Angeles. ROBERT WALSER (5509-264, Ext. 2075). (18-2)

(Zone 5)
CARSON & STUDEBAKER (Lakewood Plaza District), Lakewood. E. D. DENNIS (5534-279, Ext. 2244). 18-5

ORANGETHORPE & WOODS. (Interested in car pool only), Fullerton. EUGENE J. SNELLER (5587-414, Ext. 1947), LA. 5-8729. (18-5)

(Zone 10)
HAWTHORNE & ROSECRANS. (Will pick up between bordering streets), Lawndale. BILL NEWMAN (5587-619, Ext. 1947), OS. 6-4841. (18-10)

(Zone 14)
CENTINELA & FLORENCE (Interested in car pool), Inglewood. IVEN C. BLUM (5524-207, Ext. 2209). 18-14

Lynwood

4:30 p.m. — 12:45 a.m.

(Zone 8)
TORRANCE BLVD. & WESTERN, Torrance. ELAINE BALKO (6355, Ext. 2011), FA 8-4932. Lynwood-8

Rides Wanted

6:00 a.m. — 3:45 p.m.

(Zone 14)
VICTORY & ALAMEDA, Burbank. DON HOWEN (5515-57, Ext. 1804). (1-14)

7:00 a.m. — 3:45 p.m.

(Zone 1)
ADAMS & VERMONT or Western. INEZ C. WELLS (5508-514, Ext. 2327), RE. 2-5591. 2-1

SLAUSON & 2ND AVE., Los Angeles. EDWIN P. JOHNSON (6382-22, Ext. 559), AX. 2-2614. 2-1

VERMONT & SANTA BARBARA or 38th, Los Angeles. JOHN L. DOWNING (5508-54, Ext. 2230). (2-1)

(Zone 2)
SAN PEDRO & 67TH or Broadway & 67th, Los Angeles. JOSEPH P. MARCANTONIO (6378-79, Ext. 1611), TW. 1332. 2-2

VERMONT & SLAUSON, Los Angeles (37). CAROL J. PHELPS (5241-22, Ext. 1271), TW. 3293. 2-2

FLORENCE & WESTERN, Los Angeles. ROBERT M. HAMILTON (5518-99, Ext. 2792). PL 2-9415. 2-2

(Zone 3)
VALLEY BLVD. & WESTMONT DR., Alhambra. MAX M. BRODERSEN (5222-343, Ext. 1919), CUmberland 3-3426. (2-3)

(Zone 4)
PARAMOUNT & TELEGRAPH (Could get to Downey), Rivera. BERTEL J. HAMMAR (5524-178, Ext. 2209), TO. 9-3944. 2-4

(Zone 5)
SAN ANTONIO DR. & ROSECRANS AVE., Norwalk. ERNEST LUNDBY (5524-361, Ext. 2209). 2-5

DEL AMO & DOWNEY or Paramount, Lakewood (11). AL COTKIN (5587-399, Ext. 1973), L.B. 39-4518. 2-5

COMPTON & POINSETTIA, Compton. DEAN DILLON (5503-519), Ext. 2681. 2-5

(Zone 6)
GARDENA BLVD. & VERMONT AVE., Gardena. CLAUDE BROWN (5501-91, Ext. 2200), ME. 9-2209. 2-6

PACIFIC AVE. & 10TH ST., Long Beach. DON GALVIN (5504-116 Ext. 1424). LB 686-223. 2-6

PACIFIC AVE. & 10TH ST., Long Beach. Possibly another rider, same address. TED SQUILLANTE (5622-37 Ext. 2478). L.B.686223.

RIDES WANTED

7:00 a.m. — 3:45 p.m.

(Zone 6)
SANTA FE & WILLOW, Long Beach. ROY AUSTIN (5806-101, Ext. 533). (2-6)

(Zone 8)
CRENSHAW & COMPTON, Gardena. JEANETTE WELLS (5507-320, Ext. 526). (2-8)

(Zone 9)
HWY. 101 & A ST., Redondo Beach. ELEANOR SCHAEFLE (4230-66, Ext. 631), FR. 5-6124. 2-9

INGLEWOOD AVE. & 184TH ST., Redondo Beach. HAZEL FOLTS (5507-330, Ext. 526). (2-9)

(Zone 10)
MANHATTAN BEACH BLVD. & AVIATION or Sepulveda, Manhattan Beach. CHARLES ALTIERI (5518-92, Ext. 2792). 2-10

PIER AVENUE & SEPULVEDA (Will join car pool), Hermosa Beach. JAMES W. JONES (5544-52, Ext. 2645), FR. 2-3139. 2-10

INGLEWOOD AVE. & 136TH ST., Hawthorne. DONALD E. BRINSON (5507-188, Ext. 552). 2-10

PIER AVE. & HWY. 101, Hermosa Beach. JUANITA CAMPBELL (5508-517, Ext. 2764), FR. 4-3300. (2-10)

(Zone 12)
MARINE & OCEAN AVE., Ocean Park. DALE SLOMAN (5518-96 Ext. 2792). 2-12

HAWTHORNE & IMPERIAL, Hawthrone. ED VAN ARTSDALEN (5621-177, Ext. 2208), OR. 6-8004. (2-12)

(Zone 13)
LA BREA & CENTINELA, Inglewood. MATHA HICKS (5621-110, Ext. 2649), OR. 1-9682. 2-13

VAN NUYS & NORDHOFF, Pacoima. LESLIE N. WILLIS (5503-24, Ext. 2680). (2-13)

(Zone 14)
YUKON & 108th, Inglewood. RUTH M. CRAIG (1435-90, Ext. 2761), OR. 8-8805. 2-14

BURBANK BLVD. & BUENA VISTA ST., Burbank. CHARLES H. NORDSTROM (5162-358, Ext. 1821), VI. 9-4347. 2-14

LA BREA & SANTA MONICA. (Can get to Highland Ave.), Hollywood. HARRY BERNARD (5520-25, Ext. 1233), HO. 4-7197. (2-14)

SUNSET & LA BREA, Los Angeles. JIM LOVE (5160-11, Ext. 549). (2-14)

7:30 a.m. — 4:15 p.m.

(Zone 1)
SLAUSON & 5TH AVE., Los Angeles. R. C. JACKSON (3230-13, Ext. 2680), AX. 1-0566. 3-1

(Zone 3)
SLAUSON & TEMPLETON, Huntington Park. ALICE WILLIAMSON (6110-62, Ext. 2108). (3-3)

(Zone 4)
IMPERIAL & FIRESTONE, Norwalk. R. F. THOMPSON (9350-90, Ext. 2295), TO. 3-4949. 3-4

LONG BEACH BLVD. & TWEEDY, South Gate. H. W. THOMAS (3230-710, Ext. 2692), LO. 9-3624. 3-4

(Zone 5)
BELLFLOWER & SPRING (Lakewood), Long Beach 15. DORIS S. SPECHT (3142-90 Ext. 650) L. B. 390-859 13-5

LAKEWOOD BLVD. & DEL AMO, Lakewood. PAULINE A. REEDER (1441-83, Ext. 693), MEtcalf 3-8798. (3-5)

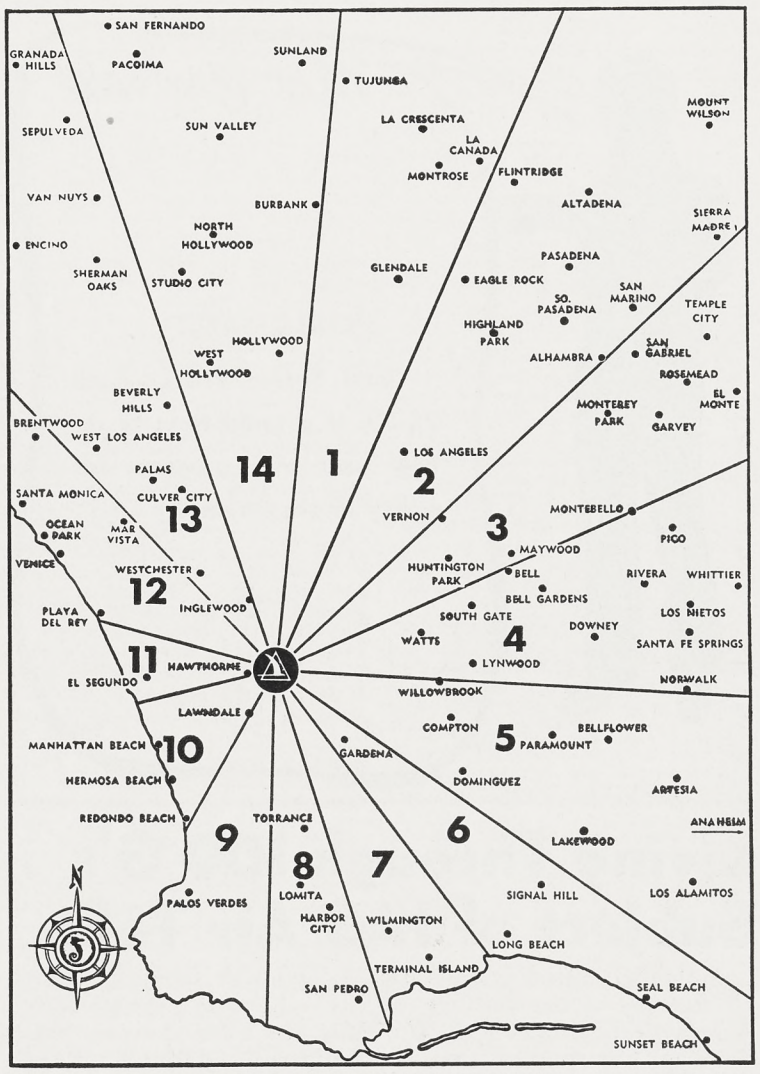
(Zone 6)
REDONDO & BROADWAY, Long Beach. JEANNE RUBBONE (3140-52, Ext. 459 and 495), L.B. 34-3870 or L.B. 9-8357. 3-6

(Zone 8)
CRENSHAW & 174TH, Torrance. JOYCE RANZENBERGER (3148-742, Ext. 495), ME. 4-9618. 3-8

CRENSHAW & TORRANCE, Torrance. NORMA JEAN WARDELL (8310-54, Ext. 2401). (3-8)

CRENSHAW & TORRANCE, Torrance. ELISA FUNICE (1441-34, Ext. 691). (3-8)

CRENSHAW & COMPTON, Gardena. R. A. MAGIN (3530-147, Ext. 1927), ME. 9-3760. (3-8)



RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 9)
HAWTHORNE BLVD. & 182ND ST. (Will join car pool), Torrance. G. L. CAMBRIDGE (3146-50, Ext. 1780), FR. 9-2127. 3-9

PACIFIC COAST HWY. & HAWTHORNE BLVD. (Would like to join a car pool), Torrance. J. D. ADAMS (3530-17, Ext. 423 or 463). 3-9

INGLEWOOD & 164TH. GRACE AUBRY (9350-41, Ext. 1828), FRontier 40067. 3-9

HAWTHORNE BLVD. & HWY. 101. (Ride to start April 27), Walteria. LES BREWER (5128-2, Ext. 1656), THornwall 2-4589. (3-9)

PRAIRIE & COMPTON, Lawndale. JEAN E. SHORT (4400-13, Ext. 1893), OS. 5-4573. (3-9)

(Zone 10)
EIGHTH & MONTEREY, Manhattan, or Pier Ave., Hermosa Beach. (Would like two-way ride; pick up children on Oak Ave. (18th & Sepulveda) on way home only). NELTA G. HARRISON (8320-92, Ext. 2011). 3-10

ROSECRANS & PACIFIC, Manhattan Beach. DON SHERMAN (5240-22, Ext. 580 or 2309), FRontier 4-1773. (3-10)

(Zone 11)
ANZA & 119TH PLACE or Inglewood Ave. & 119th Place, Hawthorne. DELORES WORKMAN (3120-842 Ext. 1869). OS 6-8853. 3-11

(Zone 12)
SEPULVEDA & 77TH or Manchester & Emerson, Los Angeles (45). ELAINE STEWART (6150-49, Ext. 2051), OR. 8-2452. 3-12

LA TIJERA & SEPULVEDA, Los Angeles (45). REGINA NOLAN (1441-213, Ext. 691), OR. 2-2519. 2-12

INDUSTRIAL & FREEMAN, Inglewood. MINNIE M. LAUER (9500-17, Ext. 2254). (3-12)

(Zone 13)
VENICE AND OVERLAND, Culver City. LLOYD C. COX (5910-814, Ext. 1314). 3-13

RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 13)
NATIONAL BLVD. & ROBERTSON BLVD. (Can meet along the way), Los Angeles (34). S. M. BUSHNELL (6150-33, Ext. 1722). 3-13

OVERLAND & BRADDOCK, Culver City. CHARLES J. ADAMS (7010-18, Ext. 2336), VE. 9-9838. (3-13)

(Zone 14)
YUKON & 108th, Inglewood. RUTH M. CRAIG (1435-90, Ext. 2761), OR. 8-8805. 3-14

CRENSHAW & 54th, Los Angeles. GLORIA H. ROHMER (8400-31, Ext. 1406). 3-14

COLDWATER & VICTORY, North Hollywood. Will travel to any convenient pick up point. HENRY KUSEL (5530-166, Ext. 1562 or 1564), SUnset 3-2484. 3-14

WILSHIRE & LA BREA, Los Angeles. MILDRED LEA DIXON (DIXIE) (6410-13, Ext. 2526), WY. 3234. 3-14

CRENSHAW & 43RD, Los Angeles. GRANVILLE GILMORE (5127-79, Ext. 2747), AXminster 1-0869. 3-14

LANKERSHIM & VINELAND, North Hollywood. ROBERT C. CARLSON (7510-64, Ext. 2498). 3-14

LARCHMONT BLVD. & 1ST STREET, Los Angeles. JIM GREENOUGH (6110-84, Ext. 753 or 754), WH. 4939. (3-14)

3:45 p.m. — 12:15 a.m.

(Zone 1)
VERNON & WESTERN or Arlington, Los Angeles. WILVESTA MORGAN, JR. (5501-403, Ext. 2200), AX. 2-0151. 6-1

(Zone 5)
COMPTON & WILMINGTON, Compton. (Two rides needed, cannot leave home before 2:55). "BRAD" BRADLEY (4300-214, Ext. 2436). 6-5

(Continued on Page 6)

"Steady, Colonel, Sir—this won't hurt a bit."

Mat Con says

CHILD SAFETY

Child Safety Week, April 25-30, is a good time to renew your own program for safety in your home.

Living Through 100 G's Subject of IAS Air Talk

Norcrafters attending the April 15 meeting of the Institute of Aeronautical Sciences in the IAS Building, Los Angeles, were afforded the opportunity to hear at first hand the experiences of Lt. Col. John Paul Stapp, as related in his talk entitled "Living Through 100 G's".

Much of Stapp's material had to do with human experimentation projects carried out on Northrop-built deceleration sleds, a program of Engineering's Special Projects department.

Forthcoming IAS meetings for the near future, also to be held at the IAS building, will be April 29, specialist meeting, "Simplicity — Key to Producibility"; May 1, Fifth Annual Spring Test Hop; and May 13, "Applications of Operations — Research Techniques of Airborne Weapons Systems Planning."

The big summer meeting, June 21-24, will see Vice-President Edgar Schmued in a speaking role, and also as chairman of the Military Aircraft and Weapons Operations panel.

Interested Norcrafters may contact Roy Jackson, Analytical Engineering, Extension 1358, for information.

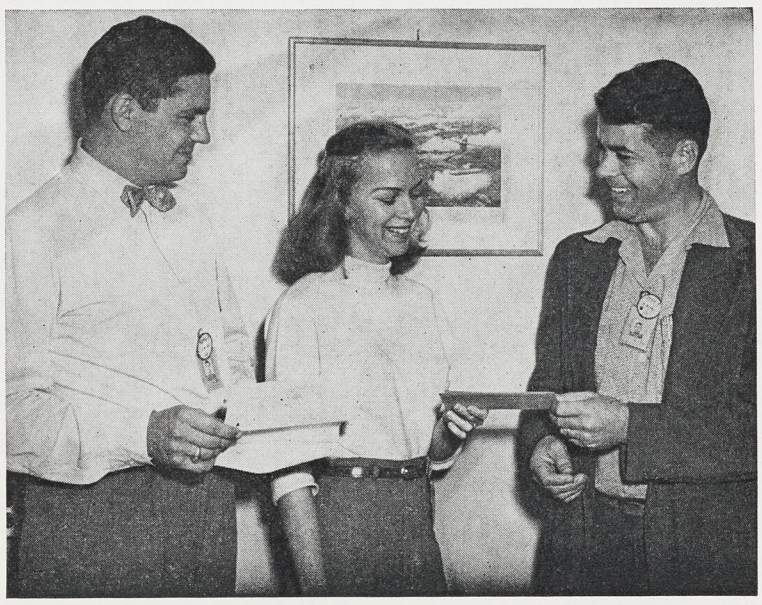
Northrop Develops Speed Motor for Digital Servo

Northrop Aircraft has awarded an exclusive license to the Stepper Motors Corporation of Los Angeles to manufacture and market a Northrop-developed high speed incremental motor, according to John E. Oliver, head of Northrop's Associated Products Department.

The incremental motor was developed by Northrop's Electro-Mechanical Laboratory. It is a reversible high speed stepping motor of extreme accuracy used for digital servo-mechanism applications, and is designed to operate at speeds up to thirty pulses per second.

The motors are built in two configurations and are adaptable to many uses other than aircraft.

Credit for the development of the motors goes to two Northrop engineers, Walter H. White and Leo B. Boyd. The motors have been in use by Northrop for the past two years.



TWO-SIDED SUGGESTION won an award for Anne Shull, Northrop Florida facility, Analysis and Scheduling department. Her Suggestion Award was granted for a method of multilithing on both sides of a sheet of paper. Pictured above with Anne, center, are J.W. Oed, Industrial Relations, left; and R. W. Warner, Analysis and Scheduling, of Florida base.

Northrop PR Films Movie For Defense

A twenty-minute sound motion picture in color, produced by Northrop with the cooperation of the United States Air Force and Ground Observer Corps, will soon be released, according to Al Cline, director, Public Relations.

The film, showing the F-89 in its defense role, will be released by Northrop Public Relations. It depicts an intercept by the Scorpion F-89 from the time a "bogey" or "unknown aircraft" is spotted by an observer and tracked by radar to the time it is identified as an enemy and destroyed.

The production points up the importance of individual civilian volunteers. It portrays lonely radar observation posts and crewmen, as well as pilots, in a step by step account of the process which protects our nation.

General Benjamin W. Chidlaw, commanding general, Western Air Defense Command, acts as narrator in one portion of the picture.

Buy Bonds

The film has been the common endeavor of several divisions and departments. Original script was written and the production coordinated by William "Bill" Cox, Motion Picture department, Public Relations. Photographic direction was by Allen Christy, Engineering Publications.

Filming was the responsibility of Felix Barlow and crew of Photographic department, and Dr. Donald Nicholson was unit manager. J. A. "Al" Grandmain, Engineering Publications, was art director and animator. Lulu Clark, of the same department, played the role of "Mrs. Jones" in the picture.

Both Air Force and Navy bases were visited by the units in filming the production.

Twelve Day Mexico Tour Plan is Set

Latest Norcrafter-designed holiday tour has been announced by Personnel Activities and Services.

This program is a twelve-day tour of Mexico which starts at Tijuana and includes Xochimilco, Churubusco, Coyoacan, the famous Floating Gardens, the archaeological zone of Teotihuacan, Mexico City, the Shrine of Guadalupe, Cuernavaca, Taxco, Acapulco and return to Mexico City before starting home.

Included in the special Norcrafter rate will be round-trip air transportation, all sightseeing (which includes bull-fights and jai-alai games), transfers between airports and hotels, all meals except on free days in Mexico City, all hotels and transportation while in Mexico, and services of an English-speaking guide-driver.

Brochures and additional information are available at PA&S offices, Plants I and III, or from PA&S representatives.

GOING MY WAY

(Continued from Page 5)

RIDES WANTED

3:45 p.m. — 1:15 a.m.

(Zone 13)
FREEMAN & MANCHESTER, Inglewood. GILBERT MIMA (5806-472, Ext. 533), OR. 1-1912. 7-13

4:45 p.m. — 1:15 a.m.

(Zone 1)
SEVENTH & HOOVER ST., Los Angeles. C. S. MILLER (5503-882, Ext. 2681), DU. 2-9022. 8-1

ADAMS & VERMONT, Los Angeles. SYLVESTER SPRINGER (5588-276, Ext. 1529), RE 2-5709. 8-4

(Zone 4)
FIRESTONE & IMPERIAL, Norwalk. Pick up two rides at one stop. Want ride to work only. BETTY B. GUSTAFSON (5509-239, Ext 2075), TO 3-5248. 8-4

(Zone 5)
ORANGETHORPE & WOODS. (Interested in car pool only), Fullerton. EUGENE J. SNELLER (5587-414, Ext. 1947), LA. 5-8729. (8-5)

(Zone 6)
CHERRY AVE. & FOURTH ST., Long Beach. C. ABSHER (5544-268, Ext. 2645). 8-6

(Zone 10)
SEPULVEDA & MANHATTAN BEACH BLVD., Manhattan Beach. MARY AGNES ARDNESEN (5233-253, Ext. 786), FRontier 4-8456. 8-10

SEPULVEDA & ROSECRANS, Manhattan Beach. (Need ride home only). DEANN NICHOLS (5233-251, Ext. 786), FR. 9-1595. 8-10

(Zone 12)
MAIN & BROOKS, Venice. JOEL EURIT (5621-443, Ext. 2208), EX. 99557. 8-12

SEPULVEDA & MANCHESTER, Westchester. JULIUS MOSIEUR (5534-254, Ext. 2244), OR. 2-6511. (8-12)

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Zone 12)
WASHINGTON & LINCOLN BLVD., Venice. W. F. ROPER (5360-218, Ext. 1624). (8-12)

ANZA & LENNOX BLVDS., Lennox. Would like ride to nearest intersection only at 1:15. W. A. WANDERER (9320-271, Ext. 1681). 8-12

(Zone 13)
LA BREA & ARBOR VITAE, Inglewood. JANE ARNDT (4220-229, Ext. 674), OR. 2-7650. 8-13

CENTURY & INGLEWOOD AVE., Inglewood. JOSEPH LA CONTE (5503-218, Ext. 2681). 8-13

OLYMPIC & DOHENY, Beverly Hills. Anywhere near this vicinity will be greatly appreciated. GEORGE CUNAG (5588-292, Ext. 1529), CRestview 4-2612. 8-13

MANCHESTER & FREEMAN, Inglewood. WILLARD M. DENNIS (5373-420, Ext. 537). (8-13)

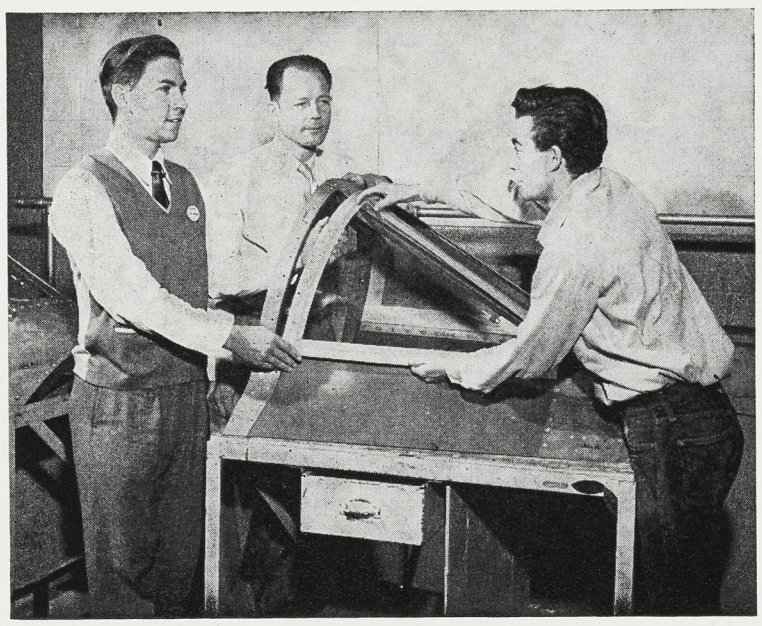
(Zone 14)
CENTINELA & FLORENCE (Interested in car pool), Inglewood. IVEN C. BLUM (5524-617, Ext. 2209). 8-14

Miscellaneous (Split Shifts)

(Zone 7)
WESTERN & 182ND ST. (Hours: 4:15 to 1:15), Gardena. ARTHUR N. TACDERAN (5544-401, Ext. 2645), ME. 91-831. 10-7

(Zone 8)
COMPTON & CRENSHAW BLVDS. (Hours: 8:00 to 4:45), Gardena. CECIL L. PENNINGTON (8300-32, Ext. 2401), OSborne 6-0914. (10-8)

(Zone 9)
PRAIRIE & ROSECRANS, (Hours: 4:15 to 1:00), Hawthorne. BEATRICE A. LUND (6150-222, Ext. 2051), OS. 5-6041. 10-9



SAVING of time, and improvement in quality, resulted from suggestion by Jimmy Bearns, right, of Plastic Shop, to use mill fibers in bonding agent used to bond windshield side panels of Scorpion. Bud Atkins, assistant foreman, and Loyal Massey, foreman, talk to Bearns about his idea. Suggestion has eliminated almost all voids in the bonding procedure.

REMINDERS in Plastic Shop to practice Safety-Conservation are colorful signs like this one, painted by Wendell Ehret, third from left. Sign hangs in area where conolon is cut, points out cost of material. Norcrafters pictured: Victoria Ann Cole, Foreman Loyal Massey, Ehret, Margaret Slaughter. Material conservation is origin of "Mat Con".

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

BANTAM CHICKENS, 1 rooster, 3 hens, good children's pets, $2 for the lot, D. A. OGILVIE, OR 1-0162. A

TUBES, three 6:70 x 15 Butyl, $.75 each; ENGINE, A65-8 Continental aircraft, low time with new overhaul, complete less carburetor, E. C. PATTERSON, ME 9-1268. A

DRAFTING MACHINE, left hand, 24" arms, Bruning metal scales, 18 months old, $65; OLDSMOBILE, business coupe, '39, second car, radio, heater, good body, motor and rubber, needs rewiring, $70, JACK KAPON. Reply in writing to Northrop News. Box 1915. A

BICYCLE, boy's 24", never ridden, includes learner's wheels, $35; RUG, 6x9 gray shag, used very little, $10, LOIS WAGGONER, EX 9-8179. A

HOUSE, 2 bedroom, lot 60'x150', 3 years old, center hall plan, living room to rear, w/w rug, 7' wardrobes in large bedrooms, garbage disposal, aluminum casement windows with venetian blinds, landscaped, redwood fenced, patio, double garage, other extras, $12,500, VIRGIL NESPOLO, OR 2-3668. A

TRUCK, 1940 GMC half-ton pickup, good condition, $125, RUSS LE VESQUE, EX 7-8438. A

REFRIGERATOR, Coldspot, working condition, meal tray, cube trays, etc., $20, E. M. RODISH, OS 6-8008 after 4 p.m. A

REFRIGERATOR, Servel gas, good condition, 12 years old, 6 cu. ft., $45, H. HUDSON, OR 1-2930. A

CHINA CLOSET, curved glass, tall, oak, open front, collector's item, $27.50, LESLIE MATTHIES, LA 5-1959 (Fullerton). A

FREEZER, 18 cu. ft., upright, sub-zero, $350, A. L. RIGBY, KEystone 5-6296. A

CHEVROLET, 1942 4-door, good tires, good running condition, ideal second car for family, $100, GRIFFITH P. JONES, VE 8-4673. A

COFFEE MAKER, 1-48 cup West Bend drip, 110-120 volt a/c only, used once, water must be boiled in separate container, will sacrifice at $15, GLORIA JEAN JARRETT, OS 6-5348. A

SADDLE, western stock, bridle and tiedown, made by Frank Merrino of Brydon Bros., black, hand tooled and silver mounted, $95, HARRY NEAL, FRontier 2-4157. A

IRONER, ABC console, $40; BICYCLE, boy's 20", $7, twin STUDIO COUCH, brown, lime and green figured, $50; Simmons walnut metal BED, $7, W. S. CONNER. Reply in writing to Northrop News, Box 1913. A

PLYMOUTH, 1954 Belvedere, 3500 mileage, radio, heater, tinted glass, windshield washers, other extras, $2150, CLIFFORD I. GARNER, NO 2-8351. A

BEDROOM SET, maple, five piece, bed, vanity, bench, chest, night stand, box spring and mattress, excellent condition, N.A. STANG, AX 2-6710. A

BICYCLE, girls', good tires, good mechanical condition, needs paint, $15, E. G. BENTLEY, El Segundo 1431R. A

AIRPLANE, 1946 Aeronca Chief, newly covered wings, recent engine major, fully equipped instrument panel, low frequency trans-receiver, will sacrifice at price well below market value, P. P. MESQUITA. Reply in writing to Northrop News, Box 1911. A

IRONER, Kelvinator portable, $20, R. C. HAKES, FR 4-0578. A

OLDSMOBILE, 1948 convertible, needs some work, '49 body style, $350, BILL TURNER, EXbrook 3-2543. A

COAT, ice blue shortie, 100% wool, never been worn, large size, will sacrifice, VIRGINIA K. PYSZORA, evenings, PL 1-4844—days, PL 4-1808. A

CAR RADIO, Motorola, like new, fits most any car, $30, BUD DRUMMON, OR 1-6048 after 4 p.m. A

CHEVROLET, '47 two-door Aero sedan, new rebuilt motor with milled head and dual pipes, nosed and decked, door handles removed, good upholstery and excellent tires, $400, OR 1-1930. A

FORD, 1950 convertible, ¾ race, radio and heater, spotlight, pipes, overdrive with manual control, engine ⅛x¼ balanced, Edelbrock dual manifold, Isky super ¾ cam, 24,000 miles, smooth idle, uses very little oil, sell for $950, LOU HULBERT. Reply in writing to Northrop News, Box 1905. A

HORSE TRAILER, double, like new, factory built, J. W. TAYLOR. Reply in writing to Northrop News, Box 1906. A

FOR SALE

TIRE, 5:50x15 Moble 4-ply, never mounted or used, $9.50; white, 6 year BABY CRIB, never used, 3 months old, price new, $31.95—asking $18, L. D. McMAHON, TOrrey 5-5508. A

PUPPIES, beautiful pure-bred cocker, AKC registered champion stock, 7 weeks old, male, black or blonde, pedigrees furnished free of extra charge, $35, LESTER C. DICKSON, NE 5-5332. A

TELEVISION ALIGNMENT GENERATOR, Hickok model 610A, covers O-115 MC and 150-230 MC with 0-15 MC sweep width, two internal markers, fully operable condition, original price $219; must sell, $70, WILLIAM W. RUNDLE, TH 6-5589. A

HOUSE TRAILER, 31', '54 model, United, completely modern, $2875, ELMER W. FITTERY. Reply in writing to Northrop News, Box 1904. A

TEENAGE CLOTHES, size 12, pink two-piece suit, English tweed sport jacket, one pair white kid oxfords and dress shoes, all like new, all for $15, MRS. CAMINITI, AX 3-4281. A

WASHER, late model, Kenmore semi-automatic, good condition, $50; LAUNDRY TUB deluxe with stand, price open, DON L. KIRKSEY, MEnlo 4-2249. A

CLARINET, black ebony; VIOLIN, J. H. BUSH, OS 6-6449. A

FURNITURE, 2-piece sectional, red, 4 tables, blonde, $20 and take over payments of $9.44 per month—balance $141.12, C. V. CUNNINGHAM, FR 2-9943. A

REFRIGERATOR, 8 cu. ft. Hotpoint, 1941 model, excellent condition, $65, MAY L. BROWN. FR 4-7514. A

RENAULT '49 sedan, radio, heater, new tires, 40-50 miles to gallon, directional lights, beautiful condition, $350, PHILIP E. BURKE, OS 6-5460. A

LUGGAGE TRAILER, 4'x8', $75; ROW BOAT and TRAILER, ¼" plywood, $100; MERCURY 1947 convertible, rough, but runs good, $300, M. R. MORAN. Reply in writing to Northrop News, Box 1903. A

HOUSE on 5 acres, 3-bedroom, 3 miles from Northrop, $11,500 with $2000 down, Landale Farms, L. H. GRAHAM. Reply in writing to Northrop News, Box 1920. A

CHRYSLER ENGINE, 1942, 120 h.p., $10, H. E. CROWELL, OR. 1-1660. A

FORD, '42 business coupe, ¾ race Mercury engine, body, interior and tires in poor condition, engine A-1, best offer takes, H. P. WILSON, NE. 5-3501. A

BARBELLS SET, 60 lbs., like new, $15, ELLEN WISE. Reply in writing to Northrop News, Box 1919. A

CHEVROLET ENGINE, 4 cylinder with Winnfield cam, Frontenac three port head, dual manifold, Iseman mag., stainless steel headers, dual outside oil pumps, and Jahns high compression pistons, 170 cu. in., semi-sprint frame with chopped Chevrolet steering, front end and rear end, new 3.27 gears, $375; ENCYCLOPEDIA, 1953 American People's, 20 volumes, never been used, $170, L. F. ANDERSEN, ARizona 3-0162. A

M.G. 1952 MK II, radio, heater, luggage rack, $1390, E. T. HAMPTON, FR. 9-4653. A

COLT AUTOMATIC, 45 caliber, special walnut grips, excellent condition, E. H. CROUCH, ORchard 7-4544 after 5 p.m. A

DINING ROOM SET, solid mahogany, exquisite workmanship, table, 5 chairs, master chair, will sacrifice for $50, FRontier 4-0359 after 5 p.m. A

TELEVISION SET, Natalie Kalmus, 21" combination radio, record player, and TV, blonde mahogany, perfect condition, reasonable offer, LANI LAUAHI. Reply in writing to Northrop News, Box 1922. A

FORD, 1941 2-door sedan less 2 front fenders, good engine and tires, will take best offer, BOBBY COOK, OS. 6-5162. A

REFRIGERATOR, 9' Cold Spot, good condition, almost new, $150; Kenmore automatic IRONER, $75, almost new; apartment size, O'Keefe & Merritt GAS RANGE, $50, good condition, R. GOODCHILD, EX. 8-8322. A

COTTON PICKING MACHINE, 1951, 2-row Allis Chalmers plus spare parts, now located in Tucson, Arizona, $4500 delivered, M. L. SMYTH. Reply in writing to Northrop News, Box 1918. A

FOR SALE

GOLF CLUBS, matched set, Johnny Revolta, #2, 5, 7, 8 and putter, $22, W. R. SLAGG, FR. 5-3647. A

LAWN SWING, good condition, complete, $19.50, WM. S. HOROWITZ, WA. 0493. A

HOUSE, comfortable 2-bedroom, double garage, large lot 50' x 173', new paint inside and out, close to Northrop, must sell to settle estate, JANE KEALEY, FAirfax 8-5730. A

OUTBOARD MOTOR, Johnson Model R-100, good condition, 1½ h.p., $20; DIVING SUIT, U. S. Navy shallow water frog suit, excellent condition, $10; PLAY PEN, good condition, raised floor model, $5, W. DEDON, EXbrook 4-1982. A

MOTOR, ½ h.p., 2 grinder and polishing heads, belts, pulleys and motor mount, cost $53, sell for $32.50, like new and unused, M. GOUKER. Reply in writing to Northrop News, Box 1916. A

BABY BUGGY, Thayer, large size, excellent condition, turquoise, heavy tires; baby BATHINETTE and CAR BED, like new, make offer, ANTHONY F. MATTEO, PL. 2-0916. A

OLDSMOBILE, 1948 convertible, 6 cylinder, Hydra-Matic, new paint, top, tires, leatherette seat covers, and brakes, $495, BILL FRANKUM, AX. 2-6119 or AX. 3-6156. A

MOTORCYCLE, 1950 H-D 61 O.H.V., 16,000 miles, top overhaul 13,000, $375, GERALD E. KRAUSE, OS. 6-1630. A

DINING TABLE and 4 chairs, mahogany, make offer, PAUL E. FLAMING, OS. 6-1985. A

ELECTRIC RANGE, Hotpoint, 3 burners and well, plus warming drawer and 2 storage drawers, clock, automatic timer, and light, approximately 5 years old, in use only 2 years, $100, AXminster 2-2288, DALE HIBBS. A

STUDEBAKER LAND CRUISER, 1948, 4-door, radio, heater, overdrive, excellent condition, make offer. PL. 5-6610. A

HOUSE, 3-bedroom, corner lot, all fenced in, four years old, must leave the coast area, my loss—your gain, sacrifice for only $8750. F. P. CARUSO, MEnlo 4-6494. A

RUG, 11½ x 12, all wool, cinnamon brown; heavy brass BRIDGE LAMP; two oil PAINTINGS; reasonable. P. A. REA. Reply in writing to Northrop News, Box 1909. A

BASSINET, expensive yellow wicker, with stand, pad and liner, excellent condition, $15. MARGE STEVENS, FRontier 2-8148. A

TV PICTURE TUBE, G.E., 17" rectangular, type 17BP4, used one year, $18.50. A. M. WILKENDORF. Reply in writing to Northrop News, Box 1907. A

GLADIRON, Thor, very good condition, $35; Western Holly GAS RANGE, $35. ROBERT L. ULLERY, OS. 6-8433. A

BICYCLE, girl's, 28" Schwinn, used very little, excellent condition, $35. LEO R. WEISS, EX. 8-0500. A

CONN TRUMPET, excellent condition. JEAN R. NOVET, ORchard 7-7379. A

IRONER, Kenmore automatic, 2 thermostats, $27.50. E. G. BREWSTER, FR. 5-2255. A

RAMBLING HOME, 4 bedrooms, upstairs study, 3 baths, many avocado and citrus trees, ½ block to tennis courts and swimming pool, in Uplifters Ranch, Santa Monica Canyon, $23,950. M. H. DAZEY, FR. 5-5298. A

BOAT TRAILER, 15', adjustable, '54 license, $45. OR. 7-2723. A

NASH, 1940, 2-door, looks good, good engine, $55. NATHAN M. BANKS, SY. 5-5015. A

TIRE, size 7:10 x 15, A-1 condition, not a re-cap, black, only $10; ICE SKATES, like new, size 8 narrow, used 3 times, $8. F. E. BURFORD, MEnlo 4-5012 after 5 p.m. A

FORD, 1951, Fordomatic, 4-door, light blue, top condition, very clean, 5 very good white sidewall tires, radio and heater, directional lights, 28,000 actual mileage, $1095. P. E. WILCOX, TO. 3-8304. A

DUPLEX, two-story, 6 years old, 1½ blocks from ocean, monthly income $140, recently painted, modest down payment, shown evenings after 5 p.m. and weekends, full price $10,950. PHILIP L. VA NOUSE, FR. 4-0717. A

TRAILER HITCH, 1951 Hudson Hornet, like new. WM. WASLEY, OR. 1-9577. A

BABY BUGGY with nylon bearings, large, collapsible, almost new, $15; 4 CHAIRS and DINING TABLE, extension leaf, plastic covered chairs, $15. L. E. MERRITT, NE. 5-1474. A

STEEL GUITAR, electric with amplifier, has new case, adjustable stand, music stand and 1 year of sheet music lessons; also RECORD PLAYER with steel guitar records, $50. C. W. SEARS, JR., LUdlow 1-1568 evenings. A

LAND — ½ acre homesite in Richland Farms Area of Compton, three large new homes across street, will sacrifice. ROSE ANN BRUNSON, NEwmark 2-4907 after 5 p.m. A

TWO LIONEL TRAINS, 1 set of switches, 1 transformer, 10 sections of curved track, 20 sections of straight track, $25; MODEL "A" less engine, $10. R. E. SMITH. Reply in writing to Northrop News, Box 1927. A

CHEVROLET, 1950 Bel-Air, radio, heater, gray and black, excellent condition, $950. PAUL CHILDS, OR. 7-2245. A

FOR SALE

STUDEBAKER, 1951 V-8, Starlight club coupe, automatic shift, radio and heater, and other extras, $995. ORchard 1-1380, ask for GEORGE. A

LAND — 1 1/10 acres, in Glen Avon, near Riverside. Reasonably priced, suitable for home site and small ranch. L. W. DAY. Reply in writing to Northrop News, Box 1926. A

WASHER, Easy, wringer type, excellent condition, $25; two single Victor photo-flood lights and one acme twin, in very good condition, must sell, $16 or best offer. D. J. HADDAD, OS. 6-9567. A

PIANO, 5' Baby Grand Mathushek, full sound and keyboard, mahogany, very good condition, no reasonable offer refused, asking $500. DI. 2-0313. A

HOUSE, 3-bedroom, Redondo Beach, 20 minutes from Northrop, near ocean, fireplace, double garage, automatic heat, patio, 4% G.I. loan, $13,500. HERBERT GEESAMAN, FR. 5-1786. A

MOVIE CAMERA, 8mm, projector, screen, haze filter, Keystone, lost interest in movies, asking $75, will take $65; MOTOR SCOOTER, 1952 Cushman Eagle, '53 engine, new muffler, cheap transportation without a parking problem, $125. DON CARLBERG, OS. 6-4752. A

BOAT, 12' "V" bottom; UTILITY TRAILER, excellent condition, $195. M. COLWELL, FR. 4-9570. A

BOXER, fawn color, female, 6 months old, ears cropped, bloodlines from "Apollo of San Joaquin" and "Barmeir" stock, AKC registered, excellent show and litter prospects, $85. THOMAS DILLS, LAncaster 1353J. Or reply in writing to Northrop News, Box 1925. A

SHOPSMITH, Model 10 ER, less than four months old, has had very little use, mounted on bench with metal ends and casters, complete with 2½" joiner cutter and shaper fence, $225. HENRY FIEDLER, FRontier 4-7462. A

NASH Rambler convertible, 1950, good top, $200 cash, balance $600 take payments of $39.96. DOROTHY FOGEL, TErminal 4-5468. A

BICYCLE, boy's 26", completely rebuilt, new tires, headlight in front, reflector in rear, repainted, $25 full price. STEVEN BUCKALEW, DAvenport 6-2820 after 5 p.m. or any time on the weekend. A

TIRE CHAINS, 6:00x16, never used, make offer; PRESSURE COOKER, Presto Frv-Master Model 400, used once, $15; child's SCOOTER, balloon tires, $2; carrying BASKET for bicycle, like new, $2.50; electric FIREPLACE LOGS, excellent condition, $12.50. OR. 11943. A

PIPE CUTTERS, ¼ to 1½ inch; CLOSET SEAT, complete, $2; CHESTS—2 four drawer unpainted chests, excellent quality, $10 each; old console RADIO, works fine, $10; pair large living room LAMPS, chartreuse and dark green, like new, $20 for pair. GRACE AUBRY, FRontier 40067. A

LAWNMOWER and grass catcher, like new, original price $23.95, will sell for $12.50, must see to appreciate. OR. 13888. A

BUICK, 1951 Deluxe Dyna-Flow, radio, heater, nylon seat covers, take over monthly payments of $71.80—balance $1395. ELEANOR HANSEN. Reply in writing to Northrop News, Box 1935. A

CAMERA, Exacta 35mm Victor, F2.9 lens, also a Carl Zeiss Zena Triotar 1.4F-13.5 CM telescopic lens. Reply in writing to Northrop News, Box 1934. A

LAND, 2½ or 5 acre plot in Palmdale, located in better residential area, excellent possibilities, paved highway, power, water close by. Terms as low as $25 down and $25 month—full price $950. FRANK PIWOWARSKI, NEwmark 5-9239. A

GOLF CLUBS, matched set of 8 stainless steel and two matched woods, golf bag included, all in good condition, sacrifice for $45; PADDLE BOARD, 16' with ¼" mahogany, solid case of styrofoam, unsinkable, $45. R. H. HOLMES, FR. 51528. A

BICYCLE, Armstrong racer, new transmission, good tires and good condition, priced for quick sale, $25. C. W. SEARS, JR., LUdlow 1-1568 evenings. A

FOR SALE

DINING ROOM SET, 8-piece matched walnut, perfect condition, table pads included, $125. ROY A. BALLING, OR. 11943. A

MOTORCYCLE, 1951 Matchless, 30.50 cu. in., single cylinder, spring frame, in excellent condition, $495. JERRY WETTERHOLM, OS. 5-4377. A

FORD, 1953, OHV 6, ½ ton pickup, immaculate, 8000 miles, $1100. L. A. MASSENGILL, FRontier 56400. A

CAR RADIO, Silvertone, $25. PHYLLIS GINTER, ME. 4-0442. A

BOAT & TRAILER—14' Hydroplane, Ford V-8 60-h.p. engine, good condition, high speed, very good for water skiing; pair of WATER SKIS. HELEN H. LEWIS, OS. 5-5157. A

MG with accessories, '52, black, $275 for equity, take over small monthly payments. SHIRLEY TIMAR, FR. 20280. A

PARAKEETS, beautiful, young, healthy birds, all colors; will make wonderful pets, or future breeders, $3.50 each. LOUISE T. McCULLOCH, ORchard 2-2434. A

CHEVROLET, 1953 sport coupe, seat covers, and all extras, best offer sells; 1953 Hotpoint upright DEEP FREEZE, condition like new, 6 months guarantee, $300. BOB HOLT. Reply in writing to Northrop News, Box 1932. A

KAYAK, 15' long, very good condition, including paddle and homemade car top carrier, $20. T. C. BJORKLUND, OS. 6-1648. A

SEWING MACHINE, electric, foot control and light, good condition, $25; drum type VACUUM CLEANER, all attachments, $20. JOSEPH F. DENISE. Reply in writing to Northrop News, Box 1933. A

HOUSE, 3-bedroom stucco, one year old, near Torrance, completely redecorated and ready for immediate occupancy, redwood fence, landscaped, ½ block from school, down payment to suit buyer, $8500. H. C. MANLEY, MA. 62226, 8 to 5. Or reply in writing to Northrop News, Box 1930. A

DODGE, 1½ ton stock panel truck, in running condition, good for moving, $200. JOSEPH SHETULSKI. Reply in writing to Northrop News, Box 1929. A

CAMERA, Kodak Monitor A620 Supermatic "Special" f4.5 lens, speed from 1/400" to 1" and B, delayed action, double exposure prevention, leather carrying case, Kalart flash gun, $40. HAROLD S. CARSON, OS. 6-2496. A

COMBINATION WIRE RECORDER, AM RADIO, RECORDER PLAYER, P.A. system, Pentron, Astra-Sonic, leatherette carrying case; cost $199.50, sell for 1/3; G.E. S-1201A 12" SPEAKER, $15; TRANSVISION 16" TV, AM, FM combination, new picture tube, $50. N. E. McGOWAN, L.B. 39-6974. A

MOTOR SCOOTER, 1953 Piaggio, with windshield, excellent condition, good mileage. TWILA GOLDSBROUGH, OR. 7-5356 after 4 p.m. A

MERCURY, 1940 club coupe, new paint, new interior, low mileage on engine, must see to appreciate, $295. R. W. VOGEL, MEnlo 9-1705. A

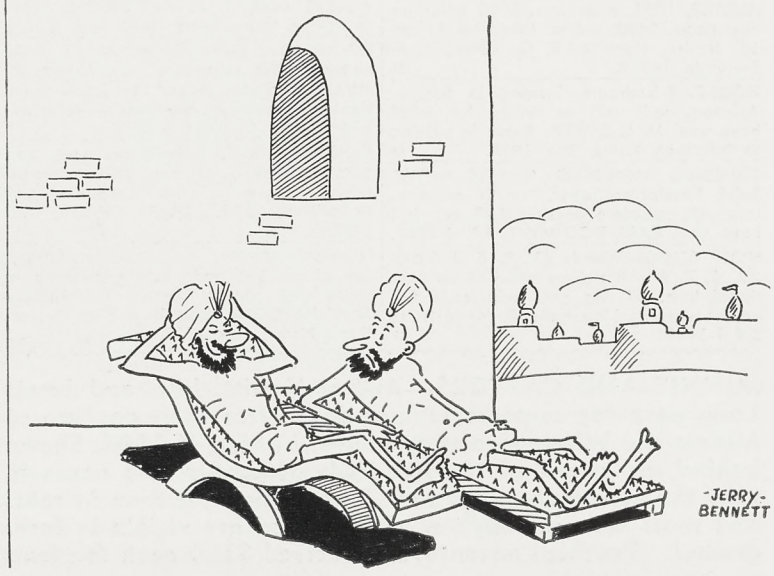
CHILDREN'S JUMP HORSE, like new, $5. H. L. SETZKE, Long Beach 397950. A

WHEELCHAIR, collapsible metal frame, with four small wheels and foot rest, strictly attendant type chair, not maneuverable by patient, $15. JOSEPHINE BECK, DUnkirk 8-7214. A

CAMERA, Cannon F 1.9, lens to 1/1000, 35mm, excellent condition, 1952 model, $100; FISHING TACKLE, Marlin outfit, like new, clear glass rod, Penn Senator, 6/0 reel, 24 thread Irish linen line, genuine leather harness, $108 value, $55 cash; RIFLE, like new, Remington, model 721, 30-06, K .25 scope, pad, case, shells, $120. BILL NEWMAN, OS. 6-4841. A

RANGE, Wedgewood, practically new; REFRIGERATOR, Gibson, 6 months old, both for less than the price of one alone or would consider splitting, $225. STERLING E. ROWE. Reply in writing to Northrop News, Box 1936. A

(Continued on Page 8)



BBSF CLASSIFIED

(Continued from Page 7)

FOR SALE

MOTORBOAT, 17′ inboard, will sell cheap for quick sale; 3 or 6 Inglewood CEMETERY LOTS, Laural plot. H. E. CONVERSE, OR. 7-0861. A

RONSON cigarette case and lighter, like new, retails at $16, engraved initials "R R", $6. RAYMOND RABINEK, OR. 2-2494. A

MOTOR, small Monarch ¼ h.p., 2 cylinder opposed, magneto advance and retard, good condition, $20; BICYCLE, Western Flyer, heavy duty back spokes, hand grip brake on front, Bendix coaster brake on rear, make offer. L. DARREL WILCOX, DOuglas 7-8455. A

RUGS, one 9′x15′ and one 9′x10′ carved Wilton, one year old, $200. MARY B. DELANEY, OS. 6-2708. A

DESK, maple, good condition, six drawer, $15, good desk for children. BONNIE JEAN BALLING, OR. 1-1943. A

HIGH CHAIR, blond maple, breaks down to table and chair; blond solid maple BABY WARDROBE, $20; 25-35 AMMUNITION, factory loads, $2.25 per box or $2 per box if 5 or more boxes taken. J. CHIDESTER, ORchard 1-3515. A

CHEVROLET, 1952 Bel Air, radio, heater, powerglide, tinted glass, $1695 or reasonable offer. D. L. DAVIS, LYcoming 5-8442 (Claremont). A

CLOTHING, two size 12 L'Aiglon dresses, like new, sell for $20 downtown, will sell for $10 each, one gabardine, one cotton; COUCH & CHAIR SET, modern, green tweed, $100; Servel REFRIGERATOR, 1948 model, 6 cubic feet, $100; Wedgewood GAS STOVE, 2 years old, semi-automatic, $75; grey Balboa chrome KITCHEN SET with 4 chairs, 6 months old, $75; all in excellent condition. MARIE CATALDO, OS. 6-7813. A

WANTED TO BUY

LOT in Rolling Hills or Palos Verdes, W. L. MARTZ, FR 5-4595. B

HOUSE or INCOME PROPERTY in Manchester, Vermont area, HARRY KLINE, AX. 2-4146. B

BRAKE DRUM PULLER, brake cylinder HONE; engine removal RACK and HOIST; other automobile REPAIR EQUIPMENT, M. GORDON. Reply in writing to Northrop News, Box 1902. B

OUTBOARD MOTOR, used, about 3 h.p., JERRY BURKE, ORchard 1-1992. B

TYPEWRITER, portable, late model, Remington preferred, either pica or elite type considered, STANLEY D. DILS, PL 8-2053. B

TRAILER, two-wheel, will pay up to $35. ALBERT G. MONIZ. Reply in writing to Northrop News, Box 1921. B

MG sport car, have '46 Ford as part payment. GEORGE UVEGES, AX. 2-1183.

FOR TRADE

EQUITY in 1951 Chevrolet 2-door, Powerglide, heater, like new, balance $536.08, includes insurance, interest, etc. Will trade for 1948 to 1950 automobile. Reply in writing to Northrop News, Box 1914. C

DEEP FREEZE, Crosley Shelvador, chest type, 2-door, 20 cubic feet, will trade for car 1946 up. PATRICIA FROTTON, call PL 5-7553 after 5 p.m. or OS 6-6848 days. C

OUTBOARD MOTOR, 5 h.p. plus cash, in trade for a 10 h.p. outboard motor with reverse, JERRY BURKE. ORchard 1-1992.

CAMERA, 2¼x3¼ Crown Graphic including flash attachment, cut film holders, Kalart rangefinder, has Ektar F4.5 lens, all like new, will trade for Hi-Fidelity 3-speed phonograph in good condition. W. MUSSER, LA. 57352. C

FOR SALE OR TRADE

TWO 70′x120′ beautiful lots at Lake Arrowhead, side by side and adjacent to a new $25,000 home, will sell or trade one or both for late automobile, property or what have you? D. R. LYNCH, OSborne 5-4125. M

AUSTIN, 1951, new tires, 2000 miles on new rings, $690, sell or trade for 12′ to 14′ trailer, sleep 4, E. G. BENTLEY, El Segundo 1431R. M

HOUSE, 2-bedroom, located in Tucson, Arizona, will sell or trade for what have you, M. L. SMYTH. Reply in writing to Northrop News, Box 1917. M

EDMUNDS MANIFOLD for '39 to '51 Buick Special or Super, two 97 carburetors with complete linkage, $30, or what have you, CARL DOUMONT, FR. 4-9643.

GOLF CLUBS—Woods #1, 2, & 3; irons #2, 5, 7, 9 and putter; good nylon sectional bag, all like new, will trade for power woodworking tools, E. MARSHALL, OR 1-3982. M

FOR SALE OR TRADE

AIRPLANE PROPELLER, good condition, for twin Cessna or ornament in den $8, or will trade for size 7¾ helmet, bronze fire extinguisher, PT 22, seat cushions, etc., JOHN K. DAWSON, MEnlo 4-7762.

EQUITY in 35′ Terra Cruiser house trailer, 1953 model, for equity in 2 or 3 bedroom home, or will sacrifice equity for cash deal, low monthly payments, trailer has bath, shower, deluxe Dixie range and Kelvinator, 2-bedrooms. Payments $66.17 per month, C. H. FOURNIER, MEnlo 4-8787. M

PISTOL, Smith & Wesson K22, 6″ barrel, nearly new, bought in March, 1954, $65; would like to trade for Smith & Wesson K38, 4″ barrel. JOSEPH MACK, RE. 20933. M

BANJO, Kay tenor with resonator and case, will sell for $20 or trade for light exposure meter of similar value. JIM HARRIS, OS. 6-5847. M

OLDSMOBILE, 1953 "98" convertible, all power extras, 14,000 miles, perfect, sell for $3195, or trade equity for perfect 1952 or 1953 Ford; AIRPLANE, Aeronca Chief, 1946, 75 h.p. Continental, new brakes and windshield, extra gas tank, 23 gallon total capacity, cruise 90, really a good one, or will trade plus cash, for sharp Culver V. T. R. NICHOLAS, OS. 5-5016. M

HOBBYISTS, stamp album with over 1000 different stamps, 130 U.S., no stamps added past 20 years, make offer, or will trade for leathercraft tools and supplies. RAYMOND RABINEK, OR. 2-2494. M

HOUSE, 2-bedroom, Manhattan Beach, will sell for $9500 or trade my equity for $500 and a four place airplane. S. E. MORRIS, NEwmark 5-1743. M

FREE

KITTENS, choice, write Box 368, Pacific Palisades. D

SOFA in need of recover job, solid frame in good condition, opens into double bed, R. C. SMITH, FR 2-8297. D

RAINCOAT, will exchange free for mine, taken in error from clothes rack in Dept. 6500, old Plant 2, Special Weapons Purchasing, between October and December, 1952. I have the "too small for me" one that was left. P. A. (PETE) STEED, FR 5-5385. D

SIAMESE CAT, blue point, altered male, 2 years old, friendly and affectionate; needs plenty of company, papers available. RICHARD E. OUELLET, ME. 33500. D

RENTALS OFFERED

TRAILER, 18′, housekeeping, sleeps two, clean, like new, reasonable, $12 per week, EDWARD L. MURPHY, PL 5-0641. E

ROOM, furnished, close to Northrop, light housekeeping privileges, men only, E. M. RODISH. Reply in writing to Northrop News, Box 1912. E

HOUSE, 2-bedroom, nicely furnished, $100 per month, 2-car garage, close to Northrop, D. R. LYNCH, OSborne 5-4125.

HOUSE, 3-room furnished, Hawthorne, $50 per month, PAUL E. FLAMING, OS. 6-1985. E

APARTMENTS, two 1-bedroom, unfurnished, Venice, $55 per month, L. V. LEMIRE, EXbrook 8-6412. E

DUPLEX APARTMENT, 1-bedroom furnished, garage, service porch, large enclosed yard, $70; 1-bedroom unfurnished, garage, service porch, large enclosed yard, $55; both one block from large shopping center, transportation and schools, HELEN SILVA, PL 5-7431 E

VACATION TRAILER, small, light, sleeps 5, complete with water, lights, butane stove, icebox and hitch. Make your reservations early. $30 per week, G. L. DEVENDORF, OS 6-7588. E

UNIT, one-bedroom, unfurnished, $40 per month, O. H. OLSON, AX 7627. E

HOUSE, 3-room, available April 24, couple only, E. C. PATTERSON, ME 9-1268. E

SLEEPING ROOM in private home vicinity Century and Prairie, prefer day worker, $10 week, I. M. PATTERSON. Reply in writing to Northrop News, Box 1938. E

ROOM, next to bath and shower, front entrance, very convenient, non-disturbing, garage available, board and laundry optional, reasonable, gentleman preferred, STANLEY D. DILS, PL 8-2053. E

DOUBLE — front, 1-bedroom, new, garbage disposal, shower bath, garage, adults, no pets, near Crenshaw and Exposition, $75. SHIG OKADA, RE. 2-9259. E

NEW APARTMENT, new furniture including piano, TV, and sewing machine to share with young woman; price open. JEAN HUDSON. Reply in writing to Northrop News, Box 1937. E

RENTALS OFFERED

FURNISHED ROOM with garage, available transportation to Northrop, 10 minutes drive, $10 per week for both, room $7.50 per week, garage $10 per month. CLYDE SWANSON, ORegon 8-8851. E

APARTMENT, unfurnished front duplex, 2 bedrooms with sliding door closets, roomy kitchen with ventilator fan, tile shower over tub, plenty storage space, immaculate interior, venetian blinds throughout; lawn and shrubs front and rear, garage, will take children, located in Westchester on Aviation just north of Century, $85 per month. EUGENE W. BURTON, OR. 2-8782. E

APARTMENTS, 3-room furnished, $59; new 3-room unfurnished, garbage disposal, wall heater, $65. R. E. DAVIS, PL. 88327. E

UPPER DUPLEX, unfurnished, view, 2-bedroom, garage, nice enclosed yard, Thermostat heat, no pre-school age children, $84.50. K. STRANG, PLymouth 6-1138. E

FRONT ROOM, with kitchen privileges, pleasant, employed lady, 6th Ave. near Slauson. MAXWELL JOHNSON, TW. 8057. E

RENTALS WANTED

APARTMENT, or small HOUSE furnished, within walking distance Northrop Plant One, employed couple to $60 month, CLAUDE BROWN. Reply in writing to Northrop News, Box 1910. F

HOUSE, two or three bedroom, prefer fenced yard, have two boys, 2 years and 6 months, and small dog to be kept outside, Southwest location, will pay to $75 a month, F. E. SHANKS. Reply in writing to Nortrop News, 1908. F

HOUSE or DUPLEX, unfurnished, 2 girls over 10 years old, anywhere Southwest, PATRICIA FROTTON, PL 5-7553 evenings. F

HOUSE, 2-bedroom unfurnished, $75 maximum, one girl 4, twins 7 months, lease is up April 30, can furnish references. H. E. RUTZKE, EXbrook 9-3702. F

ROOM, or equivalent, to rent around Lancaster-Palmdale area on or about May 24, TOMMY CULBRETH, NE 2-0107. F

HOUSE, 2-bedroom, preferably in vicinity of Hawthorne or Inglewood, 3 adults, by June 1st, reasonable. MICHAEL C. O'NEIL. Reply in writing to Northrop News, Box 1931. F

HOUSE, alone on lot, 2 or 3-bedroom, adults, AX. 3-2798 after 5 p.m. MARIE K ROBERTSON. F

APARTMENT—Bachelor wants one-bedroom furnished house or apartment near Northrop on May 1st, to $75. M. H. McCUEN. Reply in writing to Northrop News, Box 1928. F

CHILD CARE OFFERED

CHILD CARE, dependable, fenced in yard, hot lunches, recommend for people living in vicinity of Torrance, MRS. IRENE MANS, FAirfax 8-4254. G

CHILD CARE WANTED

CHILD CARE, dependable woman in Hermosa Beach area, to care for two children days, no housekeeping is required. Reply in writing to Northrop News, Box 1901. H

LOST

WALLET, light brown, lost in Dept. 5587 Wednesday morning, March 31. Papers and identification very important to me, finder please return to D. L. JONES, 7310-73, reward, FR 4-5783 after 5 p.m.

PERSONALS

HORSEBACK RIDING, persons interested in bronc riding or general rodeoing, contact PAUL ENGLISH or RAY BUNNELL, OSborne 6-5485 after 4 p.m. L

WILL DELIVER your car to any Texas point approximately May 1. Best references, D. K. NELSON, HOllywood 3-8940 after 5 p.m. L

Arthur Hewitt Snagged a Whale---Back in Gay '90s

Did anyone ever tie a rope around a whale's tale?

Norcrafter Arthur Hewitt, Standard Parts, is living proof that it can be done. He did it.

This is the way Minnie the whale was captured.

On May 20, 1897 (note that date) Arthur Hewitt, then age 18, and his friend Lewis Lang, age 19, were walking on the beach near the foot of Alamitos Avenue, Long Beach. Off shore about 150 yards they spotted big Minnie, fast asleep.

About the same time they spotted ropes left by house movers in the area. It didn't take long for the prospective Jonahs to conceive the idea of a huge practical joke on Minnie so they "borrowed" the ropes and swam stealthily out to the whale.

The boys looped the rope around the tail, then Arthur planted his foot against the whale and tightened the noose—fortunately, Minnie was a sound sleeper.

This feat accomplished, the boys became conscience stricken about the appropriation of the rope and swam back to get help from the house movers.

The movers brought a team of mules back with them to haul in the mammoth catch.

Awakened, Minnie headed for open sea, dragging the panic stricken mules slowly toward the water. Fortunately, the house movers had also brought sledge hammers and stakes. In about two hours, with the help of men, mules, and the incoming tide, Minnie was beached.

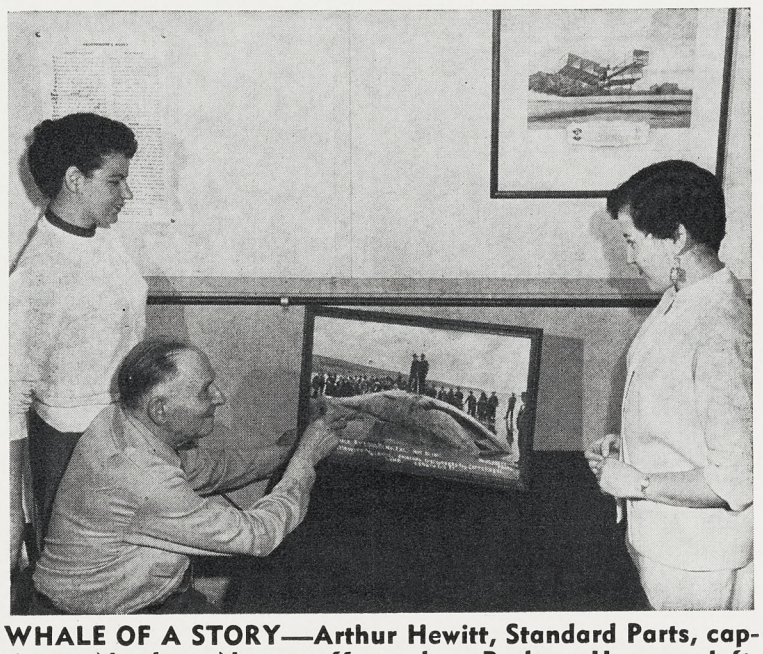
Financially, Minnie was a catch and the house movers claimed the prize.

Arthur and Lewis protested and after much transaction the house moving company offered the boys $150 each or four lots apiece on Signal Hill for their rights to the whale—naturally, they took the $150! That was a few years before the huge oil field was established on Signal Hill!

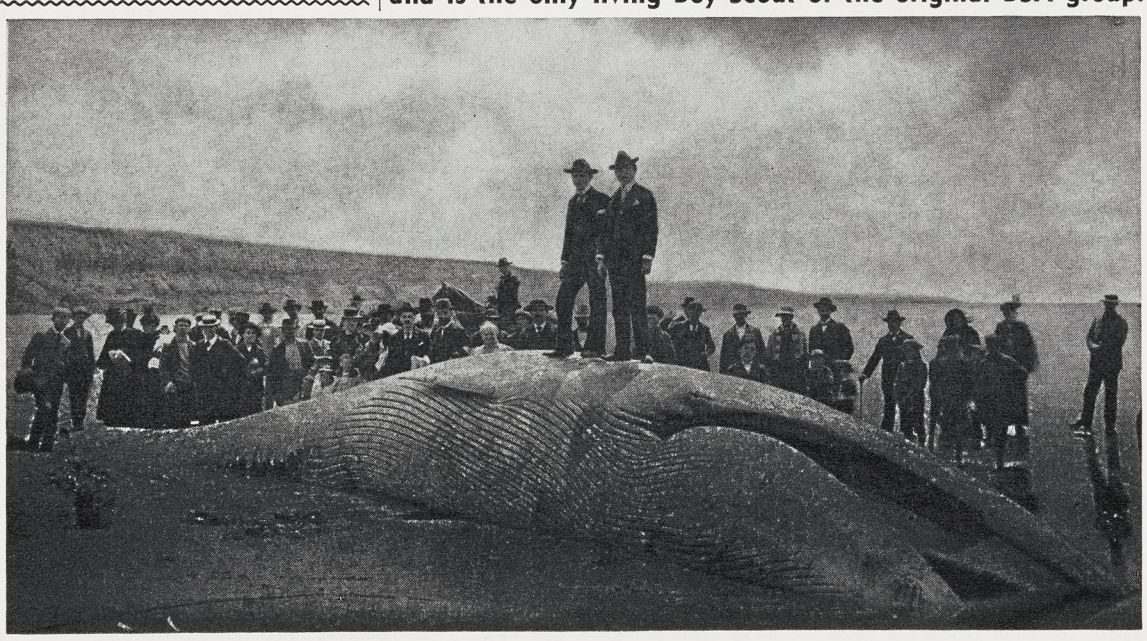
Minnie was quite an attraction and crowds came from far and near to view this 63-foot denizen of the deep. In time, however, her bones were boiled clean and reassembled and she eventually was established in a structure at Colorado Lagoon.

The years have not been kind to Minnie and plans are underway to have her bones reconditioned, rewired, and coated with preservative. When money is available, according to Dr. Frank Hartnett, assistant director of the Municipal Recreation Center, Long Beach, a new building will be built to house her inasmuch as her present abode is termite ridden and entirely unsuitable to a lady of Minnie's repute.

Now, over a half-century later, Arthur Hewitt—one of the original organizers of the Boy Scouts, by the way—is still adding to his experiences and as a member of the Standard Parts department in a line service control capacity, he is a colorful Norcrafter.



WHALE OF A STORY—Arthur Hewitt, Standard Parts, captivates Northrop News staff members Barbara Herman, left, and Pama Srader as he shows them picture taken in 1897 (see enlarged shot below) and tells them how he and his friend made the daring "round-up" of the 63-foot Minnie. Hewitt once served as hunting guide for Teddy Roosevelt and is the only living Boy Scout of the original BSA group.



MINNIE AND CAPTORS—Arthur Hewitt, left, and Lewis Lang pose for cameras several days after their capture of Minnie the Whale (see story above) in May of 1897. Shown behind are a few of the hundreds of people who came to view the mammal. Some rode horseback (note man in rear) and most rode in tallyhos. Ropes used are visible in foreground. Youthful adventurers received $150 each for feat.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information in activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

BIBLE STUDY
Al Barnes, acting commissioner
Meet daily—Plant I, Plaster Shop tent, 11:00 a.m.; Plant II, second floor, center conference rm., 12:30 p.m.; Plant III, conference room 2, 12:15.

BOAT CLUB
Elmer Chiodo, commissioner
Next meeting Monday, May 3, 7:30 p.m., NRC Clubhouse. Semi-annual Boat Club Dance at NRC Clubhouse May 22 at 7:30 p.m. Memorial Day sailing cruise to Catalina.

BOWLING (day)
Chuck Carson, commissioner

BOWLING (night)
Tony Cardoza, commissioner
Annual Spring Tourney, Hawthorne Bowl, Sunday, April 25, May 2. "Bowling Ball", NRC Clubhouse, May 8. Tickets available from league officers. Summer leagues now forming. Entries available PA&S, Plants I & III.

CAMERA CLUB (day)
George Fuller, commissioner
Meet every other Friday, NRC Clubhouse Annex. Second annual print and slide competition to be held in Anaheim on Friday, April 30.

CAMERA CLUB (night)
Adam Slusarz, commissioner
Meet every other Saturday evening, NRC Clubhouse. Next meeting May 1, 7:30 p.m.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.h., Conference Room T-1.

GEM AND MINERAL CLUB
Art Westermann, acting commissioner
Meet fourth Wednesday of each month at the NRC Clubhouse. Next meeting, April 28, 7:30 p.m.

GOLF CLUB (day)
Jim Milne, commissioner
Twilight leagues at Western Ave. and Alondra Park Golf Course each evening Monday through Thursday, beginning April 26 and ending October 1.

GUN CLUB
Dick Booth, commissioner
Meet every other Tuesday, 7:30 p.m., NRC Clubhouse. Next meeting April 27.

MIXED CHORUS
Ken Schumacher, acting commissioner
Meet every Wednesday evening, NRC Clubhouse, Fountain Room, 7:30 p.m.

MODEL RAILROAD CLUB
Gene Boggess, commissioner
Meet every Thursday evening at 4411 W. Redondo Beach Blvd., 7:30 p.m.

PHILATELIC CLUB
George Barton, commissioner
Philatelic and Numismatic combined club meets 2nd and 4th Monday each month. Next meeting April 26, NRC Clubhouse, 7:30 p.m.

PLAYERS GROUP
Roger Williams, acting commissioner
Meet every Wednesday evening, at the NRC Clubhouse Annex at 7:30 p.m.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun., May 2, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, April 29.

SALT WATER FISHING
Bill Dean, acting commissioner
The first boat run will be on May 15. Boats will run May 15, June 12, July 17, Aug. 14, Sept. 4. Fishing license can be acquired at PA&S.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next Shoot May 1. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be May 17, NRC Clubhouse Board Room.

SOFTBALL
Tom White, commissioner
Practice sessions Rosecrans and St. Andrews playgrounds. Team entries accepted PA&S. Call Ext. 595.

SPORT CAR
Doug Hugill, commissioner
Meet second Thursday each month, NRC Clubhouse. Next meeting May 13, 7:30. Sierra Rally Overnite event; Rally Master—H. Hunsberger, May 1 and 2.

SQUARE DANCING
Dave Dyer, commissioner
Meet at Swimms Barn, 15016 Daphne St., Gardena, from 7:00 to 10:00 p.m. Meets 1st, 2nd, 4th and 5th Sundays.

SURF FISHING
Ralph Schamp, commissioner
Meet NRC Clubhouse, 7:30 p.m., 1st Tuesday of month. Next meeting May 4.

TOASTMASTERS 212 (day)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, Gardena.

TOASTMASTERS 1398 (night)
Eugene Gruber, representative
Meet last Tuesday of month. Next meeting April 27, NRC Clubhouse.

TROPICAL FISH CLUB
Orval Coley, commissioner
Meet last Tuesday of month. Next meeting April 27, NRC Clubhouse.

SOFTBALL SEASON STARTS

TEAMS NOW FORMING

The 1954 NRC Softball season is now underway and it has been announced that two diamonds are available for interdepartmental softball play.

Rosecrans Playground will be available for practice sessions on Monday, Tuesday, and Thursday and St. Andrews playground at St. Andrews Place and Manchester Boulevard will be available for Wednesday and Friday practice sessions.

Entry forms for departmental teams are now available at the Personnel Activities and Services offices, Plants I and III. It is requested that these forms be submitted by April 23.

A team manager's meeting will be held on April 29 at the NRC Clubhouse. The meeting will start at 7:30 p.m.

To schedule practice sessions and for added information, call Personnel Activities & Services, extension 595.

Bus Charter Trip On Tap At Anaheim

An all expense outing to Las Vegas, Nevada, by chartered bus for Anaheim Norcrafters is the latest headline to be blue-printed from the NRC planning board. The trip with details and coordination under the direction of Hal Chanslor, PA&S, is scheduled to get under way from the main gate at the Anaheim plant on a Friday afternoon — date to be chosen by Norcrafters who participate. Time of departure will be approximately 4:30 p.m.

Once under way first stop will be for dinner at "Jack's", Verde Monte, California, 7:30 p.m. Arrival in Las Vegas will be at 11 p.m. At 11:15, the tour will witness a floor show at one of the seven leading night clubs, also to be chosen by popular preference.

At 1 a.m. (Saturday morning) the group will check in Twin Lake Lodge (two miles west of Las Vegas). Individual bungalows, two persons to each room, private bath, and view of the lake will be afforded.

Saturday will officially get underway at 8 a.m. with a farm style breakfast. Next on the program is a trip to Boulder Dam and Lake Meade, with luncheon at Lake Meade Lodge.

The evening will be featured by a charcoal steak dinner and floor show at the El Cortez. Lodging will again be at Twin Lakes Lodge.

Sunday morning a rainbow trout breakfast will be the first order of the day — Norcrafters may catch their own fish. Remainder of the morning will be spent sightseeing in Las Vegas.

The tour will leave for home Sunday at 1:30 p.m. and arrive at Northrop-Anaheim plant at 7:30 p.m.

Interested Norcrafters should contact Hal Chanslor, Anaheim PA&S, for complete details and their suggestions as to which weekend.

Price for this affair — $35.00!

ROCK HOUNDS TO HEAR NOTED MINERALOGIST

The newly organized NRC Gem and Mineral Club will have Mrs. Dorothy Craig, president of both the American and California Federations of Mineralogical Societies as guest speaker at its April 28 meeting. Meeting will be held in the NRC Clubhouse at 7:30 p.m.

Mrs. Craig will present some prize winning mineral specimens for display at the meeting.

In addition to the featured speaker, plans for the next field trip will be discussed and a report will be made on the April 10 field trip to the Newhall area.

It has been announced that plans are being formed to organize a transportation pool for rock hounds who lack transportation to field areas.

All rock hounds, prospectors, and lapidaries are invited.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Dorothy Hodgson, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BALLET CLASS
Lessons scheduled every Thursday at 8:00 p.m., NRC Clubhouse. $0.50 per person per lesson.

BOWLING
Florence Rice, commissioner
"Bowling Ball" dinner dance, May 8, NRC Clubhouse. Tickets available from all league officers. Spring Tournament and summer league entry blanks now available at PA&S, Plants I and III.

DINNER CLUB
Cathy Waffel, commissioner
Next regular dinner meeting at Scully's Restaurant, 4801 Crenshaw, 7:00 p.m., Thursday, April 22. Dinner tickets at $2.25, including tip and tax, may be obtained from PA&S, Plants I & III.

FLOWER CLUB
Meet second Tuesday of each month, NRC Clubhouse, 7:30 p.m.

GOLF CLUB
New series of golf lessons starting soon. All ladies interested please submit name and department number to PA&S, Ext. 2784.

INTERIOR DECORATING
Meet every Thurs., NRC Clubhouse.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Tuesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SOFTBALL
Practice sessions have commenced. Please submit name to PA&S, Ext. 2784.

SENIOR GIRL SCOUT TROOP (MARINERS)
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Peggy Barber, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 to 6:30 p.m. Baby sitting provided if necessary.

Ontario Horsehiders

NEWLY-ELECTED Northrop-Ontario Softball Commissioner Mart Valadez, right, receives congratulations and the official Northrop Ontario softball league bat from outgoing commissioner Leandro Garcia. Under the direction of Commissioner Valadez, NRC team has begun semi-weekly practice sessions at DeAnza Park in preparation for the forthcoming city softball league beginning in May.

LADY SOFTBALL PLAY SCHEDULED AT LADERA PARK

Teams are now being formed for the NRC Ladies Softball league.

Practice sessions are held each Tuesday from 6:30 to 8:00 p.m. at the Ladera Park diamond, 6027 Ladera Park Avenue. Practice games are being scheduled.

All interested Norcrafters are invited to submit their names, department, and clock numbers to Personnel Activities and Services, extension 2784.

Ann Grothaus, Venice High School girls' gym instructor will coach teams.

Teams will compete in Los Angeles City Recreation Department Industrial league play, which is scheduled to start approximately June 1.

Sports Cars Off on High Sierra Test

Sports car enthusiasts are invited to attend the third annual Sierra Rally of the NRC Sports Car club to be held Saturday and Sunday, May 1 and 2.

The rally will be run over a varied course of approximately 200 miles and will range from sea level to over 6000 feet. Nearly every type of road will be represented, but none is too rough, according to Club Commissioner Doug Hugill.

Starting place will be on Pacific Coast Highway at Will Rogers State Beach parking lot. Finishing point will be near Alta Sierra in Kern County.

Trophies will be awarded for the first five places. A team award will go to the first place cars entered as a pre-declared three-car team. There will also be a "dead last" award.

Entry fee will be $2.00 and closing date for all entries is April 23. Overnight reservations must be submitted with entry or, Commissioner Hugill suggests, the rugged can bring sleeping bags. There are ample improved camp grounds.

Additional information is available at PA&S, extension 2784.

ANAHEIM WOMEN FETE JURIST AT DINNER MEET

Narcotics and the insurmountable difficulties of the "road back" for addicts was the subject of a talk by Superior Court Judge Robert Gardner to Anaheim NRC Women's Dinner Club Tuesday evening, March 30.

Thirty Anaheim-Norcrafters attended the affair which was held at Mother Colony House Restaurant, 243 West Center Street, Anaheim.

DUCATS ON HAND AT PA&S FOR LA POLICE ANNUAL

Personnel Activities & Services have announced that exchange tickets are now available for the 20th Annual Police Show to be held at the Shrine Auditorium on May 6 through May 19.

Tickets at $1.25 each may be purchased at PA&S offices, Plants I and III, or from all PA&S representatives.

SECRETARIES AT ANAHEIM HOST "BOSSES" MAY 7

Northrop-Anaheim's Business and Secretarial Club, Mary Ellen Stine, general chairman, will convene for the highlight event of the year — "Bosses' Night" — Friday evening next May 7.

This year's edition of Bosses' Night promises to measure up to last year's affair themed "Your Secretary, Miss Jones".

THE Northrop Scene BY DAY AND NIGHT

Ontario MC Gavel Presentation

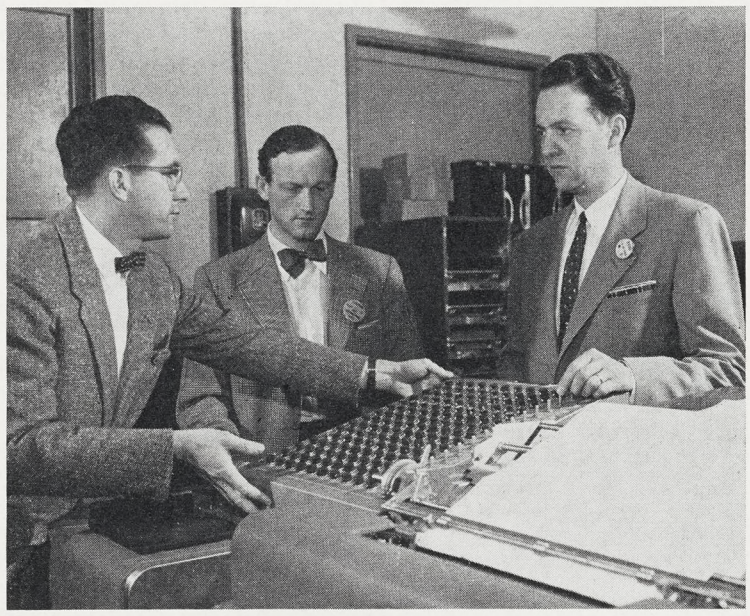
LEADERSHIP SYMBOL—Lou Casale (bow tie) is Ontario's popular new Management Club V-P, elected to reign with Bob Salisbury and Jerry Hutter. Installed at Sycamore Inn, March 27, when wives were special guests, Lou accepted gavel, tradition-vested symbol of responsibility, from Base Administrator Ernie Lawson, following relinquishment by past year's top man Bob Snider. Lou basks in smiles of (from left) Palmdale Base Administrator Tom McCracken, Mrs. McCracken and daughter Muriel; Ontario's Ernie and Mrs. Lawson, Mrs. Lou Casale, and ex-veep Bob and Mrs. Snider.

Gravity Defied?

A MEAL IN SPACE is made seemingly possible by speed of 45-foot Northrop test track. Sled is propelled by piston and cable hookup pneumatically activated within a tube. Air compression stops sled. Above, sled has vanished before gravity can affect dishes. Quick shutter snap was worked out by Val Hawes, Photo Lab. Track and sled were developed by Test Engineering. Todd Fast, Public Relations, mans knife, fork.

Summer Softball Supply

SHOPPING expedition to purchase new equipment for NRC Softball teams rates smiles from shoppers. Left: Bob Ketchum, KB&S Sporting Goods Company; Paul Wheeler, 1953 Softball commissioner; Larry Baird, PA&S representative; and Francis McLarney, umpire-in-chief. Practice sessions for teams are now in session at Rosecrans and St. Andrews playgrounds (story page 9). Entry blanks available PA&S—Plants 1, 3.



DISTINGUISHED VISITOR to Northrop Computer group recently was Borje Langefors, Computer Division, SAAB Aircraft Company, Linkoping, Sweden. The visitor heard of Northrop advanced computer techniques in Europe. Above, from left: Rex Rice, jr., assistant chief, Computer Service; Langefors; and Lee Ohlinger, chief, Computer Service.

ONTARIO BOWLERS, by defeating Lockheed Flight Service recently, won back coveted team trophy here being received by day Commissioner Bruce Nicholson, left, from Lockheed's Ralph Marsh. Other Ontario Norcrafter bowlers deciding the win were top mixed teamsters Albert Cichella, Dick Lierd, Norm Jacobson, Lonnie Bridges and Marie Dahlgren. Lonnie Bridges, Ted Kubla and Mrs. Norman Houghey copped special honors in individual bowling fields.

For Oratorical Excellence

DOUBLE HONOR—Past-president Glen Jackson, left, of NRC Toastmasters Club 212 presents newly-elected prexy Ernie Boren trophy for best Speaker for the Term. Award was presented at the April 9 dinner where Ernie was formally installed in the top TM spot. Guest speakers for evening were: Al Hallquist, TM Area 12 governor; Gordon Winbigler, TM Area 1 lieutenant governor; and Harry Clark, Personnel Activities.

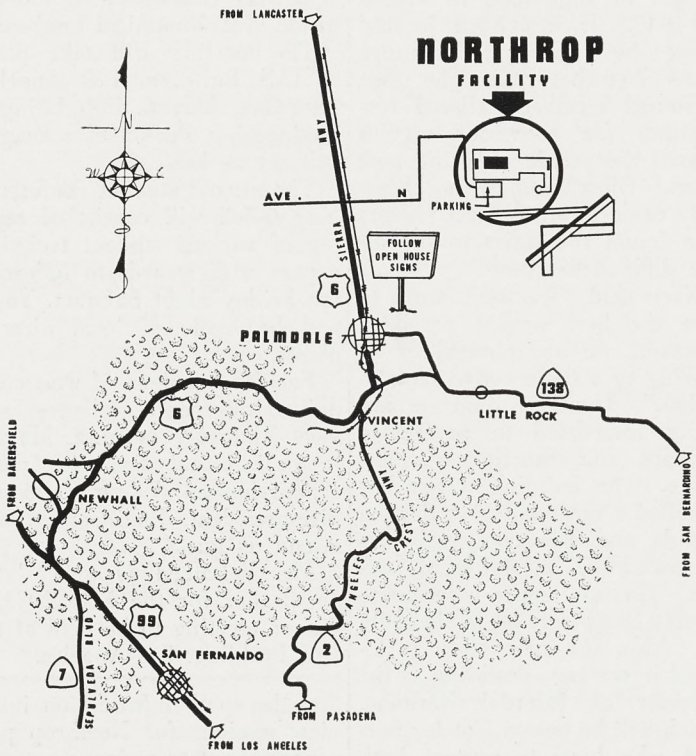
Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, May 5, 1954

Top Management
(See page 3)
Armed Forces Day
(See pages 4 and 5)

PALMDALE PLANS OPEN HOUSE

Road Map for Visitors



PALMDALE OPEN HOUSE visitors will find above map a handy guide for reaching the facility on Armed Forces Day, Saturday, May 15. The map was drawn by Industrial and Plant Engineering division Norcrafters. The open house celebration at the Antelope Valley facility is one of hundreds of similar observances to be held throughout the country and at overseas installations. For full details, see story at right.

F-89 Tuned For Rocket Competition

Norcrafters representing several departments last week-end completed preparations on F-89D Scorpions which are competing now in rocket-firing runs at Tyndall AFB, Florida.

The Tyndall competition will determine the Air Training Command representative for the USAF Rocket Meet to be held at Yuma in June.

(See photo, this page)

Overall coordination of the program is in the hands of Military Relations Norcrafters. Experimental Flight Test, Radio and Radar, Customer Field Service, and Engineering specialists have been at Moody AFB, Valdosta, Georgia — where preparations were made for the Tyndall firing — lending a hand to AF maintenance personnel.

Pilots and RO's from the 3550th Flying Training Group and 3553rd Flying Training Squadron, Moody AFB, visited Edwards AFB recently (see Northrop News, April 7, 1954) for pointers on the rocket firing procedure.

Shortly thereafter, Tom Flannigan, Military Relations; Bill Pruitt and John Wallis, Experimental Flight Test; Norm Richards, Radio and Radar; and

(Continued on Page 3)

GALA ARMED FORCES DAY AFFAIR SLATED FOR SATURDAY, 15 MAY

Northrop's Palmdale Airport facility will officially open its doors for inspection on Saturday, May 15, 1954, it is announced by Tom McCracken, Northrop-Palmdale administrator.

A display of sleek Northrop Scorpions will top an impressive array of aircraft exhibits and activities available for public viewing from 10:00 a.m. until 4:00 p.m.

Displays by other aircraft companies in the area will also be shown in a joint celebration of Armed Forces Day, arranged by Major Robert Green, USAF officer in charge of the joint facility.

Visitors will be taken on a complete tour of the 250,000 square foot production flight test installation. They will be shown how F-89D's are prepared for production flight testing, how the green exterior production preservative is stripped from the jets, and how the huge all-weather interceptors will move down the Northrop-Palmdale completion line.

In addition, ramps will be erected to allow visitors to inspect the cockpit of the airplane, look at a portion of the complex electronic gear carried by the Scorpion, and generally observe the airplane at close range.

Another feature of the open house will be an F-89D placed on jacks while dive brakes, landing gear, and other control surfaces are operated in view of spectators.

Also on display will be a turbojet engine. Other display items will include jet pilot's high altitude flight gear; a target Radioplane; productive and non-productive stores used at Northrop-Palmdale; and illustrations of Northrop Recreation Club activities.

The detailed tour of the facility will take visitors through the installation's modern three-story, air-conditioned "building within a building", which houses the administration offices; the stores warehouse, where aircraft materiel will be on display; the paint and strip hangar and the giant main hangar.

A Northrop News supplement marking the occasion will be distributed on the assembly lines.

Tom McCracken, base administrator, will act as host for the open house. His aides in planning the event are Bill Renison, Operational Facilities chief, and Dick Carroll, Industrial Relations manager of the plant. Norcrafters will be stationed along the tour route to answer questions and direct visitors.

This marks the first public display of the F-89D in the Antelope Valley area. Residents, who will soon be watching the swift airplanes on their production flight tests over the desert, will be able to inspect the interceptor closely and view dummy models

(Continued on Page 8)

Framed Scorpion Picture For Norcrafter Referral

Urgent need for certain types of professional personnel has resulted in revival of the Northrop Referral Award plan, successfully used in the past, according to Bob Ehinger, Engineering Personnel manager.

Rules will be the same as in the past, except that the award will be a handsomely framed 16" x 20" color reproduction of two F-89D airplanes in full flight over snowy mountains. The original painting is the work of Jack Leynnwood, Art Service department.

Any Norcrafter successfully referring an acquaintance to the Engineering Personnel department will receive the framed picture as his award.

Names may be submitted on Northrop Applicant Referral cards now posted in all Northrop lobbies and Personnel offices.

Desired classifications are as follows: Aerodynamicist A, Aerodynamicist B, Aerodynamics Engineer A, Construction Engineer A, Design Specialist A, Development Liaison Engineer A, Dynamicist A, Dynamicist B, Dynamics Engineer A, Electrical Engineer A, Engineering Designer A, Engineering Designer B, Engineering Drawings Checker A, Engineering Liaison Man A, Flight Test Analyst A, Flight Test Engineer A, Industrial Engineer A, Methods Analyst A, Preliminary Design Engineer A, Production Design Engineer A, Production Design Engineer B, Research Engineer A, Research Lab Analyst A, Statistical Ana-

(Continued on Page 2)

NRC Fishing Club First Trip May 15

First come, first served is the reservation rule for the NRC Salt Water Fishing club's first cruise of the season, according to Commissioners Bill Dean, days, and Chuck Bija, nights.

Cruises start on May 15 and 16. The cast-off for good fishing waters will be made from Joe Martin's Twenty-second Street Landing, San Pedro, at 3:00 a.m.

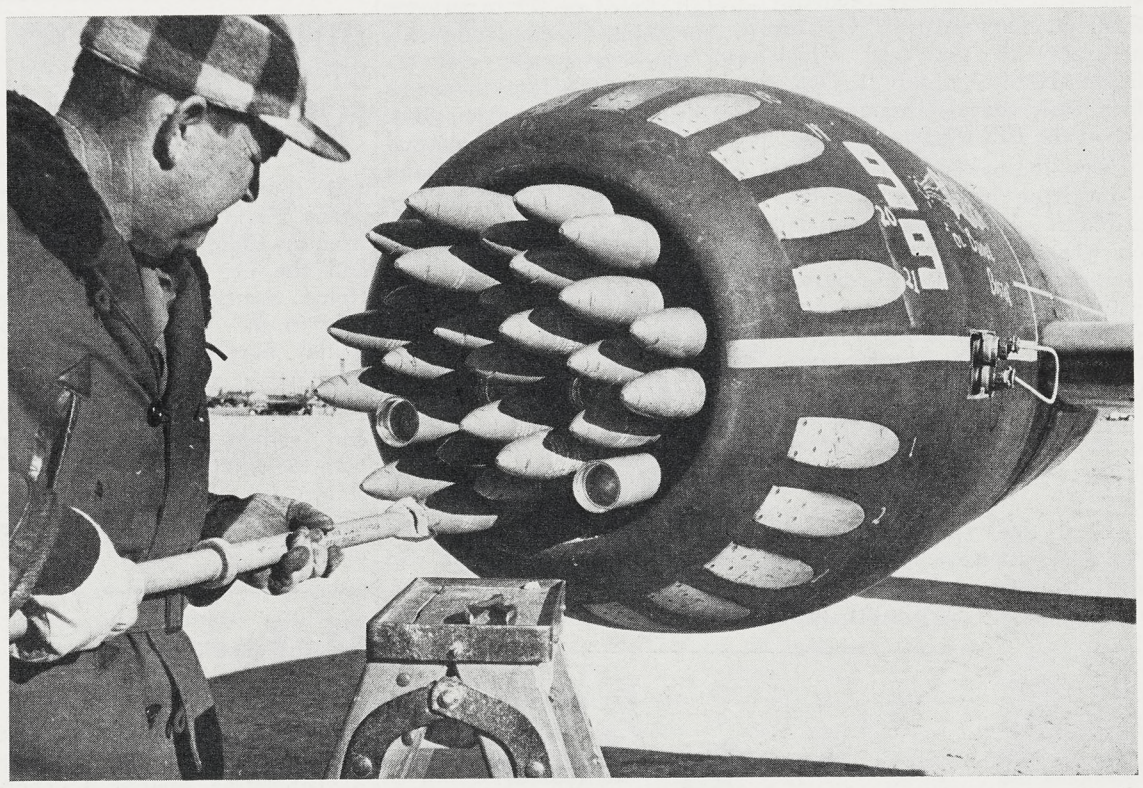
The Kiru will sail on Saturday, May 15, and the Terleen goes out on Sunday, May 16.

Assuring all fishermen of ample fishing space, capacity of the boats has been limited. The Kiru will take 17 people at $7.90 each and the Terleen invites 14 at $8.20 each.

Deadline for reservations at PA&S is Wednesday, May 12.

Future cruises are scheduled for June 12 and 13, July 17 and 18, August 14 and 15, and September 4 and 5.

"Sunday Punch" Readied for Contest



EGGS OF DESTRUCTION are carefully packed in tip-pod nest by B. C. Finch, Flight Service, Edwards. Scenes like this are now being enacted under tutelage of Northrop tech reps by Air Force teams between firing runs at competition under way at Tyndall AFB, Florida. This competition will determine the Air Training Command representative for USAF Rocket Meet to be held in Yuma in June. Coordination of Northrop's part in the program is in charge of Military Relations with several other divisions lending a hand.

FIXED PRICE F-89'S

HOW DOES A FIXED PRICE CONTRACT WORK?

Receipt of the most recent F-89 Scorpion contract (see Northrop News, April 7) has revived discussion among Norcrafters about fixed-price contracts, in comparison with cost-plus-fixed-fee contracts.

Any discussion of contracts necessarily becomes involved in technical details which might ordinarily confuse the reader who is not previously acquainted with the subject.

To present a simplified account of the details of fixed-price contracts, the News called on Don Vivrette, manager, Contract Administration. His explanation, in layman terms, follows in the columns below.

(For highlight comments of company officers on the same subject, see Inquiring Reporter on the facing page.)

BY DON VIVRETTE
Manager, Contract Administration

By way of introduction, it might be pointed out that our XF-89 and production F-89A, B, C, and early D aircraft were built under cost-plus-fixed-fee (CPFF) contracts.

These contracts provide for payment of all *allowable costs* (as defined in the contracts), and also establish an estimate of

the total cost on which the fixed fee (profit) is paid.

The fee is changed only when the estimate of the total cost is changed as the result of a change by the customer in the scope of work, *but not otherwise.*

The use of the CPFF type of contract is generally limited now by the government to research and development contracts, or to early production contracts where there is little or no previous cost experience available to the contractor.

The latter was the case in our first Scorpion contracts. The F-89 was a new airplane; obviously, it would have been difficult to forecast with extreme accuracy all the costs which might arise in building it. Therefore, early contracts were awarded on the CPFF basis.

Now, the newer F-89 contracts —involving hundreds of F-89D airplanes—have been negotiated on what is called a *fixed-price redetermination* type contract, with provisions for an incentive settlement (sometimes referred to as FPI, or fixed-price-incentive.)

The use of this type of contract in the manufacture of Scorpions arises primarily from two factors:

First, the experience which Norcrafters have now had in building the various series of the F-89 airplane; and, second, as the result of spirited competition in the industry for the manufacture of airplanes.

In FPI contracts there are three separate negotiations involved.

The initial negotiation establishes a *tentative target price* to the customer and a date for the second negotiation. This tentative price is based on cost information that is relatively limited, for this initial proposal is made long before the deliveries on the contract are even scheduled to start, and may be based only on the experience of building a similar airplane.

As the result of these initial negotiations, the contract is written and awarded to Northrop, which allows us to begin the work.

At the second negotiation there will be established a *firm target price* to the customer for the

aircraft, based on the experience to that point. Obviously, by this time there is greater cost experience available than there was at the time of initial negotiations. Costs recorded up to this second negotiation point are at hand (plus the earlier ones), and we can more accurately forecast, by use of them, what additional costs will be required to complete the contract.

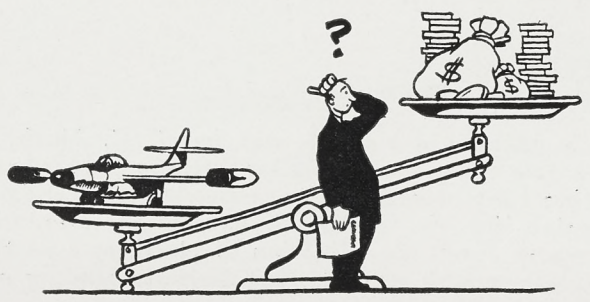
In the second negotiation there is also established by the company and the customer a *ceiling price* to the customer, which is slightly higher than the firm target price—but which is the maximum dollar-figure the government will pay for delivery of all airplanes on the contract.

The final—third—negotiations come after completion of the contract. This is the "re-determination" phase and it results in a final determination of the price of the airplane to be paid the company by the customer.

It is here, then, that the total cost for all items is negotiated, and the incentive formula applied to arrive at a total sales price. The "Incentive Formula" provides that the contractor will share a percentage of the savings achieved through efficient operation and also will, in turn, share a percentage of the loss if costs are higher than anticipated.

The result, to the company, will be one of three:

1. If the final negotiated cost for all the Scorpions we've built under the contract is *less* than that used to figure the firm target price, the company's profit is increased.
2. If the final cost is *higher* than that used to figure the firm target price, the company's profit is reduced.
3. If the final cost exceeds the ceiling price which had been established, the government will not reimburse the company for any of the excess cost (over-run above the ceiling), and the result is direct loss to the company.



DINNER CLUB TO STAGE PARTY FOR 75 ORPHANS

The Women's Dinner Club will sponsor its annual "Orphans' Party" for youngsters from the Children's Baptist Home and the Los Angeles Orphans' Home Society. Party will be held in the NRC Clubhouse on Friday, May 14, from 6:30 until 8:30 p.m.

Tickets are priced at $2.10 and include cost of dinner for both the adult and the "adopted" child.

Deadline for reservations is May 12.

Referral

(Continued from Page 1)

lyst A, Stress Analyst A, Stress Engineer A, Structures Engineer A, Tabulating Analyst A, Thermodynamicist A, Thermodynamics Analyst A, Thermodynamics Engineer A, Weight Control Engineer A, Wind Tunnel Test Engineer A, Tool Research Analyst A, Tool Engineer A.

Social Security Office Moves To New Location

The Inglewood social security office will move on May 1, 1954 to a new location at 335 East Queen Street, Inglewood, George R. Kretz, manager of the office, announced today.

The move to the new ground floor location is being made to accommodate older people who have in the past found it difficult to reach the present second floor office.

The social security office first opened in Inglewood in March of 1947. It has been located above the Inglewood Furniture Store since that year. The office personnel received national recognition for courteous service offered the public over the past years. Office employees cheerfully came down to meet visitors who found the stairs to the office difficult to climb.

Kretz said, "We were happy to give the best service possible; however, we are pleased to be moving to a more convenient location." The new quarters are being remodeled to present a pleasant and functional atmosphere. The building owner has installed a new ceiling to deaden sounds and has completely redecorated the interior of the office. The total space is larger to permit better service to the public. Also, the new office is located in the same building as the Director of Internal Revenue, which will be convenient for persons who have to contact both offices.

The public is invited to visit the new office after May 1 and become acquainted with the local staff.

Social Security office officials have as a policy programmed "on the spot" information interview sessions for Northrop personnel about to retire.

During these times, Social Security office staff workers spend from one to two weeks in the Northrop personnel department giving out information on retirement benefits to all senior Norcrafters.

IAS To Host Students at 3-Day Meet

Student engineers from universities of the west coast will be guests of the Northrop company during the first day of a three day conference of the Institute of Aeronautical Engineers.

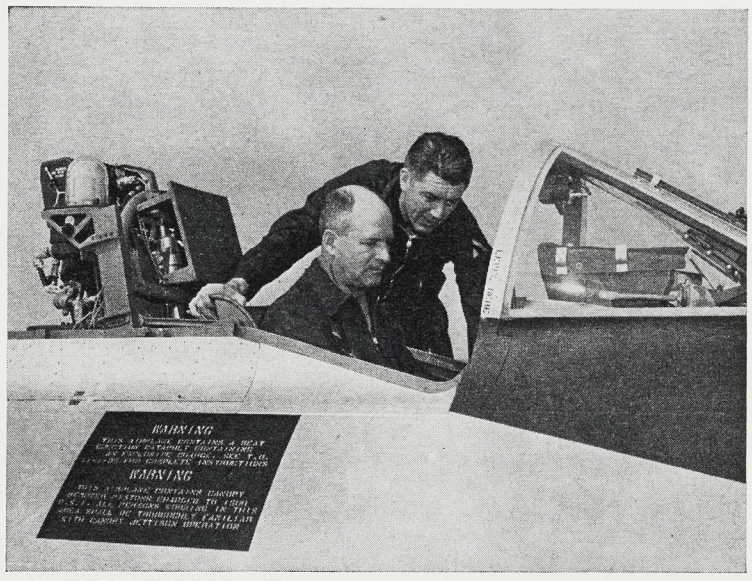
The meeting will take place at IAS Building, Los Angeles, Thursday, May 6. Bob Ehinger, Engineering Personnel manager, will act as host.

The annual student conference May 6-7-8, will consist of reading of various student technical papers with awards to follow at the Friday night banquet. Tours will be made of local aircraft plants.

Faculty members of west coast universities and colleges will meet Thursday evening, May 6, in an informal discussion panel of curriculum. Edgar Schmued, vice-president, Engineering, will attend as guest.

Mr. Schmued is also slated as speaker for the May 20 IAS dinner meeting to be held at the IAS Building, Los Angeles.

Visitor from Alaska



DOWN FROM NORTH recently to confer on latest developments and flight techniques was Colonel R. L. Gould (cockpit), special assistant to commander, Alaskan Air Command. Colonel, who last year delivered first "C" to Alaska, returned north this time with one of first "D's". Bob Love, Northrop Military Relations pilot (standing), accompanied Gould north, flew a second plane. Bob's job: to brief Alaskan Air Command crews who are manning the Grand Slam D's.

Northrop News

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JOHN B. CLARK, Director

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Palmdale Norcrafters to Launch GTT Sports List

List of activities slated for Palmdale Norcrafters in near future reads like the "Good Time Table" as published in Northrop News each issue.

Answers to a questionnaire recently distributed to Norcrafters in the Antelope Valley area have given NRC officials a cross section of recreational preferences, according to Ken Wood, PA&S representative at Palmdale.

Largest interest family-wise has been shown in gardening and bridge club inquiries. Gardening, according to Wood, takes the top spot due to the differing horticultural opportunities existing in the valley.

Sports-wise, first softball practice was held recently with twenty men turning out to plan team formation.

A volley-ball league has been formed with four teams competing. Teams have not yet been officially named.

A softball team will be entered in the Palmdale AAU summer league competition with first game to be played May 24.

A hunting club is in formation with a respectable number of members already signed up. This will include both actual hunting and trap shooting activity.

With fishing season imminent, rods are being conditioned for both club and individual sorties into surrounding trout waters.

On the cultural side, an Art Club is being organized. A square dancing club is in the "talk" stage.

Meanwhile noontime play consists of rugged teamwork in volley-ball plus high interest in ping-pong for both boys and girls, with four tables devoted to the latter sport. Shuffleboard courts have been painted on hangar floors and are getting a good play.

Rockets

(Continued from Page 1)

Neal Lehman, Hughes Aircraft tech rep, joined Northrop Tech Reps Oscar Graffious, Nelson Williams, and Jim Peluso at Moody.

Bill Porter, Electro-Mechanical Design, and G. M. Regan, Armament, had preceded the group to Moody to work on the airplanes scheduled for the preliminaries at Tyndall.

Another Norcrafter, R. E. La Grande, Radio and Radar, had been at Moody earlier as consultant on electronics work.

The aircraft and crews were to depart from Moody last Thursday for Tyndall. Dry-firing runs were slated for Monday, May 3, with actual firing due to begin yesterday, and to extend through Friday.

The Norcrafters named, with invaluable assistance from countless personnel behind the scenes — both at Hawthorne and Edwards — are plugging hard for the Scorpion to come through the preliminaries on top, with the winning of the Yuma meet the ultimate goal.

Give-Away Night For Gardeners

Give-away night for the NRC Flower Club will be held on Tuesday, May 11, at the NRC Clubhouse, according to Commissioner Rosalie Geesaman.

In addition to a discussion-lecture by various members on proper cars and planting of annuals, perennials and roses, some of the members will bring flowers from their home gardens and demonstrate artistic flower arrangements. These flowers will be given to winners as door prizes.

Members attending will receive several plants free from the NRC.

Down . . . . . Range

New Pilot for Florida base is James F. Holliman, holder of three Air Medals for missions flown in Korea territory—many from aircraft carrier Bon Homme Richard—Holliman has logged 2500 flying hours, 1200 in jets, according to Max Stanley, director, Flight Department.

Six year Norcrafter Curt Davis, Tooling Inspection, third shift, has been elected by the Culver City Council to serve as mayor of the City and Chairman of the Council— as mayor he also serves on the board of directors of the West Basin Sanitation District.

JOE WEBB

Busy Lee Johnson, chief safety engineer, was named recently to serve as western region representative of safety standards committee, American Society of Safety Engineers—other current honorary positions are vice president, Veterans of Safety; President Eisenhower's Occupational Safety Conference; and past chairman, American Society of Safety Engineers.

One of the judges at the recently concluded third annual science fair for youngsters from seventh to twelfth grades was Edgar Schmued, vice president, Engineering. . . . The interesting exhibit of youthful scientific endeavor was held at the Los Angeles County Museum.

Major to Lieutenant Colonel was recent promotion of Joe Webb, chief of Air Force's Flight Test and Acceptance Division at Ontario . . . assigned to Northrop for second time in November '53. Colonel Webb is old hand with company, was Project Officer, Air Materiel Command, on Black Widow airplane back in '44, after CBI tour of duty.

Company Officers State Views On Fixed Price Contracts

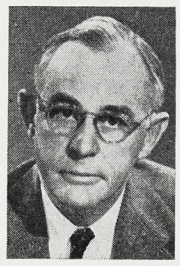
MANAGEMENT COMMENTS TO INQUIRING REPORTER

What does fixed price mean to Norcrafters and to the Company?

To get the answer as to how this type of contractual agreement between the Air Force and Northrop Aircraft will affect us, and how best through teamwork and application of our know-how and techniques we can achieve the costs and production goals set for us, Inquiring Reporter went to the officers of the Company.

Their answers follow:

General Oliver P. Echols, Chairman of the Board, President and General Manager:



"We are now in the midst of fixed price production and the success of the Company depends upon our concerted action. Our day to day decisions and actions must be pointed toward the realization of objectives imposed by our desires to retain a place of importance in the changing economy. These objectives may be briefly stated as greater productivity for the defense dollar."

Vice-president Kenneth P. Bowen, Manufacturing:

"Whether he is on the production line or in an office, the individual Norcrafter can best help in meeting the requirements of any contract by *staying on the job* every day, and by taking care of the tools he works with as though they were his own equipment at home. Add to these the awareness of the importance of low cost, good organization, low overhead, and efficient use of space, materials, and time . . . and we will have gone a long way to meeting the challenge every contract brings. We must remember that competition is keen. Only by making our schedules and reducing our costs can we expect to beat competition."

Vice-president Roland J. Pagen, Finance:

"The cost of performing the work under all types of Government contracts must be efficiently controlled by the contractor at all times.

"A cost-plus-fixed-fee contract fixes the amount of fee or profit, but not the final percentage, that will be paid to the contractor for completing the work required under the contract.

"The amount of profit to be earned on a fixed-price incentive-type contract is tentatively fixed, but is subject to adjustment up or down, depending upon the cost incurred in performing the work required under the contract.

"The incentive part of the contract is to make it possible for the contractor to increase the profits by reducing his cost of completing the work."

Vice-president John R. Alison, Administration:

"Our new fixed-price contracts will afford our company the opportunity to produce and sell our product on a basis that will be mutually beneficial to the Air Force, the taxpayer, and to Northrop.

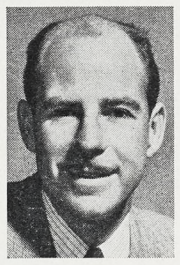
"It is essential that our company operate with maximum effectiveness, not only to produce a satisfactory financial return, but to avoid the consequences of financial penalties which can result from inefficient operations. Good administrative procedures will make it possible for divisions, departments and individuals to produce with maximum effectiveness."

Assistant Secretary Alan C. Morgan:

"The advent of fixed-price incentive type contracts for our major airframe production in lieu of the older type cost-plus-fixed-fee contracts is a step of major importance to our company. It puts in our reach additional benefits and, in turn, demands from us tremendous responsibilities, such as extreme accuracy in cost estimating and cost accounting procedures and utmost efficiency in our buying and manufacturing processes.

"All of us contribute, through one channel or another, to the final efficiency of our operation as a whole, and the fixed-price contracts, by their terms, demand constant increase in this factor."

Vice-president John W. Myers, Customer Relations:



"The FPI contract is a double-edged sword with which we can carve out a solid future for the company and job security for each of us as individuals, or with which we can hurt ourselves badly. If each one of us now uses every talent and every effort as efficiently as possible, the potential of our company is unlimited; and we shall have fulfilled our responsibilities to ourselves, to the communities of which we are a part, and to the government."

Vice-president Edgar Schmued, Engineering:

"The new contracts represent good standard business methods which are most compatible with our American way of life, where the best man can win. To become the 'best man', under these terms, we must not relax our careful study and understanding of the opportunities present for improvement. We can be sure our competitors are continually progressing; we must do no less."

Secretary and Corporation Counsel George Gore:

"It is no exaggeration to say that the future course of the company, and, therefore, of each of us individually, depends upon how we perform these present contracts. If we beat the "target" we not only produce additional earnings for our company and at the same time deliver the airplanes to the Government at a reduced cost, but what is perhaps more important for our future, we demonstrate our efficiency to the Air Force."

Assistant Treasurer Charles C. Cilley:

"We must continue our efforts to develop better ways — more efficient ways — of doing our individual jobs. Every contract, whether it is cost-plus-fixed-fee or fixed-price incentive, imposes this responsibility on every one of us. Only through this continuous effort can we maintain our competitive industry position."

MARINERS STAGE SENIOR DANCE— IN PARIS THEME

"Moonlight in Paris" was the theme for the annual Senior Girl Scout dance held on Saturday, April 10, in the NRC Clubhouse annex.

The NRC Mariners and their sister Scout groups in the area decorated the hall to resemble a French cabaret and Byron Harkins and his orchestra provided music for the gala Parisian evening.

Next event will be the Mariners Spring Dance to be held on May 22. This dance will be one in a series to help the girls raise funds for a Mariner trip to Hawaii in 1955, according to Club Commissioner May Hawkins.

Tickets for the May 22 dance are on sale in the PA&S office, Plant I. Price is 50c each. The dance will start at 8:00 p.m. at the NRC Clubhouse. Byron Harkins and his musicians will again be on the bandstand and door prizes of a portable radio and a flash camera will be awarded to lucky ticket holders.

YUKON-BOUND—! Photo shows first three crews from Elmendorf AFB, Alaska, as they picked up Scorpions from Ontario to fly to the north country base. From left: Lieutenant B. C. Ross; Captain G. C. Cooper; Lieutenant D. R. Barron; Lieutenant P. N. Choconas; Major James V. Beckett, senior pilot; and Lieutenant G. E. Borkosky. They are among guardians of American defense who will be honored by observance of Armed Forces Day on May 15. Norcrafter interest in the day will be centered on open house celebration at new Palmdale base. For details of latter, see story beginning on page 1, this issue.

NEW AERIAL DEFENDER for Pacific Northwest is F-89 Scorpion shown just before it left Ontario's International Airport for Portland Municipal Airport, Portland, Oregon. Along with "Portland Skywatch" went greetings from Ontario Mayor G. E. McQuatters, center, and from Alex Gallagher, right, supervisor of Ontario Ground Observer Corps. From left: Jack Farley, chief, Production Flight Test; Major Bob Morrow; Bob Love, Military Relations; Ontario Northrop Base Administrator Ernie Lawson; McQuatters; Pilot Lieutenant Colonel Julian Crow and Radar Observer Lieutenant Jerry Powell, who flew in airplane; Gallagher. Scorpions at Portland are part of Western Air Defense Force.

U. S. SALUTE TO SERVICES

ARMED FORCES DAY — MAY 15

Armed Forces Day will be celebrated on May 15 throughout the United States and overseas wherever Americans are stationed.

"Power for Peace" is the slogan of the day, the Department of Defense has advised the press. Principal emphasis in local observances of the occasion will be placed on "open house" programs to be held at American military installations throughout the world.

(In this area Palmdale will be the scene beckoning most Norcrafters — see story front page, this issue).

Among the hundreds of thousands of servicemen and women who will be honored on that day will be an ever-growing number with whom Norcrafters feel a kinship.

They are the men who fly in Scorpions, and those who man the tanks of the Ordnance Corps. (These men, in turn, feel close to Norcrafters, too, as letters have indicated).

As the Armed Forces Day observance draws near, Norcrafters can look with quiet pride upon the growing perimeter of defense being manned by Scorpions and the men who fly them.

F-89s have been sent to Alaska within the past half-year; the northern approaches to America's vast industrial heartland in the Middle West are being guarded by squadrons based at Sault Ste. Marie, Michigan; Minneapolis-St. Paul, Minnesota; and Madison, Wisconsin.

Other twin-engined interceptors stand guard in Maine and Massachusetts and Oregon. And the ring of all-weather protection to the continent grows stronger daily.

More and more new Scorpions roll off production lines — armed more heavily than any other fighter-type airplanes in America. They are sent, eventually, to Air Force bases for use by the Air Defense Command.

Only recently it was disclosed that first flights by operational Scorpions were made over the polar regions by members of the 65th Fighter Interceptor Squadron, Alaskan Air Command (Northrop News, April 7). Only previous Scorpion crossings of the Arctic Circle had been made in cold weather test operations.

Contributing to the Air Force's strong share of "Power for Peace" are all Norcrafters at Hawthorne, Ontario, Edwards, Palmdale, Patrick AFB, LAX, and Anaheim.

The part Hawthorne, Ontario, Edwards and Palmdale personnel play in the armed forces scheme of things is fairly obvious.

Most of the Florida Norcrafters' work, however, must remain — due to security regulations — highly anonymous, but it is nonetheless of vital importance to Uncle Sam. For reasons of security, too, the work of LAX Norcrafters remains largely unknown.

Anaheim's primary contribution has been to the Ordnance Corps, and of late it has been increased to include Air Force, since the arrangement to build various aircraft parts was made.

Well-established now as a source of precision instrument procurement for the Ordnance Corps the work of Anaheim was originally encouraged by the Corps to get a source of supply independent of the traditional Eastern sources.

Anaheim stands now as an experienced facility ready, if need be, to increase her share in supplying "Power for Peace".

DESERT VISIT—. Anaheim Norcrafters recently visited Camp Irwin to study at first hand the application of Anaheim-built fire control systems in M-48 tanks. The trio was escorted around base by Captain O. W. Cooper, base maintenance officer, and Tech Sergeant C. Johnson. In photo above, from left: Doug Adam, project engineer; Johnson; John Sonderman, Research and Design Engineering supervisor; Cooper; and Phil Painchaud, also Anaheim design engineer. Irwin, where M-48 tanks are tested, is located near Barstow.

PATTON TANKS use Anaheim-built range-finders as "eyes" for their 90mm guns; with range-finders guns find targets with minimum need of bracketing. Anaheim Norcrafters steadily contribute to armed forces' might with other precision-built opto-mechanical products, including periscopes, telescopes, and, recently, with aircraft parts.

Scorpion: Link Version

CHARGED with defense of continental United States is Air Defense Command, which is headed by General Benjamin W. Chidlaw. General Chidlaw is photographed in the cockpit of a new Scorpion flight simulator at famed Link Aviation, Inc. Edwin A. Link, board chairman of Link, is shown with the General. The "flight" took place during the twenty-fifth anniversary of simulated flight, February 3.

Scorpion Squadron Rolls Past One Thousand Mark

On Armed Forces Day, 1954, the exclusive fraternity called "Scorpion Squadron" will count over 1200 members in its ranks.

Restricted to those who have passed prescribed tests as pilot, radar observer, or observer, the Scorpion Squadron enlists its members after they have been checked out in the F-89.

Beginning with membership card Number One — issued to Vice-president John W. Myers — the files of Scorpion Squadron — kept faithfully by Jean Hatcher, Military Relations — now show among its members such illustrious names as Roger Lewis, Assistant Secretary of the Air Force, Materiel; Lieutenant General Charles T. Myers, commander of the North East Air Command; Major General Morris R. Nelson, commanding general, Eastern Air Defense Force; and Major General George R. Acheson, commanding general, Alaskan Air Command.

The mechanics of membership work something like this:

When pilots, ROs, or observers — the latter classification is one which takes in personnel who fly in the '89, but do not actually perform the other two duties — check out in the airplane, the Northrop tech rep at the base sends in their names to Military Relations.

Names of the new enrollees are forwarded to Art Service, where Norcrafters inscribe certificates with the names.

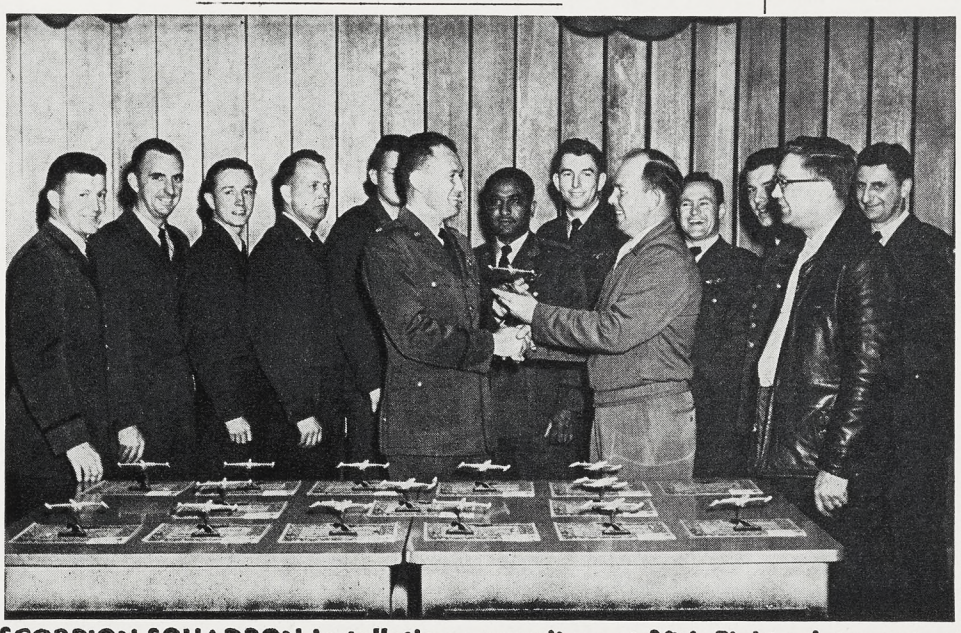
The certificates, accompanied by lapel pins, wallet-size membership cards, and small scale-models of the Scorpion, are dispatched by Military Relations back to the tech rep.

The ceremony during which the Scorpion Squadron memberships are distributed is usually a happy one, for the AF men who fly in the airplane are becoming increasingly proud of belonging to the organization.

The tip-off on their feelings came in a letter addressed to the plant recently. In it the tech rep who wrote it said: "This is the first time anybody ever did anything like this for the men in this squadron . . . and many pilots have been flying for years . . ."

DEADLY BARRAGE of 2.75 rockets is unleashed by Scorpion in photo above. Most heavily-armed fighter type airplane in America, Scorpion carries 104 rockets in wing tip pods—real Sunday punch for the "Grand Slam".

RELATIVELY NEW home for Scorpion is Kinross AFB, Sault Ste. Marie, Michigan, where Michigan Governor G. Mennen Williams, center, visited recently. At left: Northrop Tech Rep Dallas Tirk; and at right: Lieutenant Colonel Victor E. Milner, commanding officer of the 534th Air Defense Group. Milner is well-known to Norcrafters.



SCORPION SQUADRON installation proceedings at 18th Fighter Interceptor Squadron, Minneapolis. New members of organization (see story above), from left: Captains W. H. Lee, W. H. Burke; Lieutenants W. K. Becker, R. Batchelor, and J. K. Murtaugh; Captain C. C. Long; Lieutenants D. S. Brietbach, J. L. Fisher, and W. P. Boland; Warrant Officer H. Ernst; Northrop Tech Rep Hoyt Shaw. Center, front: Major John "Buck" Rogers, CO of squadron; Belvin Brigham, tech rep, making presentation to Rogers.

FIRST MOODY AFB Scorpion F-89D school graduates, now assigned to Air Defense Command. Front: Lieutenants F. E. Goodrow, E. H. Gilbertson, K. D. Pooly, R. A. DeGenova, E. M. Relac, and G. P. Lowder. Helping conduct program were men in rear: Major A. C. Sheppard, Moody F-89 Section CO; Bob Love, Northrop Military Relations; Ernie Felis, Northrop tech rep (now in Alaska); Major D. C. Donaldson, Major C. S. Allman, and Captain Clifford Mills, all Moody AFB representing Air Training Command.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel Department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 1)
SANTA MONICA BLVD. & WESTERN, Hollywood. (Drive Western, Van Ness or Crenshaw). W. J. FORBELL (5234-17, Ext. 1981). HO. 5-9121. (12-1)

(Zone 2)
WESTERN & 193RD ST. (Interested in car pool), Los Angeles. JESSE T. VEAZY (5508-356, Ext. 2230 or 1463), PL. 6-6539. (12-2)

(Zone 4)
SAN PEDRO & IMPERIAL, Los Angeles 3. Can pick up between Avalon and Broadway on Imperial. J. R. DOMINGUEZ (5586-50, Ext. 1973), PL. 6-6177 (12-4)

(Zone 5)
DEL AMO & DOWNEY or Paramount, Lakewood. AL COTKIN (5587-399, Ext. 1947), L.B. 394-518. (12-5)

CARSON & WOODRUFF, Lakewood. ESTHER EWING (6269-23, Ext. 703), LB. 399-077. (12-5)

(Zone 9)
CLARK LANE & RINDGE, North Redondo Beach. EDWARD A. BROOKS (5587-154, Ext. 1947). (12-9)

(Zone 10)
MANHATTAN AVE. & 22ND ST., Hermosa Beach. JAMES SIMS (5544-171, Ext. 2645), FR. 4-9082. (12-10)

(Zone 12)
MAIN & BROOKS or Lincoln & Venice, Venice. RAYMOND KIEFT (5538-38, Ext. 525). 12-12

SEPULVEDA & LA TIJERA or Century, Los Angeles. D. ENJEM (5504-132, Ext. 1424), OR. 2-6528. (12-12)

(Zone 14)
BEVERLY BLVD. & FAIRFAX. (Interested in car pool), Los Angeles. NEIL NIELSEN (5508-502, Ext. 2230), WH. 7767. (12-14)

HOLLYWOOD & BURBANK, Burbank. (Can take 4 or 5 passengers). HARRY ERLEBACH (5501-95, Ext. 2200), TH. 6-8785. 12-14

7:30 a.m. — 4:15 p.m.

(Zone 4)
LAKEWOOD & IMPERIAL. (Interested in ride pool), Downey. JIM MAC DOWELL (5141-12, Ext. 514 or 515), TO. 9-5162. (13-4)

(Zone 5)
ANAHEIM—FULLERTON area. (Interested in car pool), Anaheim. TED WITSIL (3410-93, Ext. 1348). (13-5)

(Zone 13)
BALBOA & SATICOY, Van Nuys. S. CHAIS (3230-725, Ext. 1570), DIckens 2-9384. (13-13)

(Zone 14)
MELROSE & LA BREA. (Route: Melrose, La Brea, Centinela to Prairie), Los Angeles. FRANK EAGAN (9400-16, Ext. 1352), WYoming 1356. (13-14)

REDONDO & VENICE BLVD., Los Angeles. (Route: South on La Brea to El Segundo Blvd., east on El Segundo Blvd. to plant). WAYNE V. DENNIS (3230-719, Ext. 553), WE. 8-4934. 13-14

SANTA MONICA & LA BREA, Hollywood. (Can pick up anywhere along La Brea to Slauson, or between Santa Monica and Wilshire on Highland). DOROTHY K. HALLINAN (3140-831, Ext.. 1848), HO. 3-0906. 13-14

3:45 p.m. — 12:15 a.m.

(Zone 2)
UNION & 7TH. (Route: Union, Hoover, Santa Barbara to Crenshaw), Los Angeles. E. L. HOM (5587-665, Ext. 1947), DU. 2-0814. (16-2)

(Zone 4)
SPRING & 109TH ST., Los Angeles. GILFRED J. PENN (5165-230, Ext. 1821), PL. 5-3842) (16-4)

(Zone 7)
SEPULVEDA & AVALON, Wilmington. DANIEL D. SILVA (5501-259, Ext. 2200). (16-7)

AVALON & 223RD, Wilmington. BOB LOPER (5538-236, Ext. 525). (16-7)

(Zone 12)
BUNDY & SANTA MONICA BLVD., Los Angeles 25. HAROLD K. FRIEND (5501-414, Ext. 2200), AR. 3-8535. 16-12

SANTA MONICA BLVD. & BUNDY DRIVE, West Los Angeles. JAMES PAYNE (5501-413, Ext. 2200), AR. 9-6374. 16-12

RIDES OFFERED

4:45 p.m. — 1:15 a.m.

(Zone 1)
VERMONT & HOLLYWOOD BLVD., Los Angeles. ANDRE R. DORLET (5586-49, Ext. 1973), NO. 3-8680. (18-1)

(Zone 3)
GARVEY BLVD. & GLENDORA AVE. (Have 3 fellows driving each week. Want 1 more in vicinity of W. Covina, Covina, Azusa, Puente, to trade off cars each week), West Covina. GEORGE R. PRESLEY (5587-217, Ext. 2236). (18-3)

VALLEY BLVD. & ROSEMEAD, El Monte. FRANCIS D. LEHMAN (5544-489, Ext. 2645), FOrest 0-9128. 18-3

(Zone 4)
LONG BEACH BLVD. & CENTURY BLVD., Lynwood. CHARLES S. SHULL (5360-236, Ext. 1624). 18-4

(Zone 5)
ORANGETHORPE & WOODS, Fullerton. EUGENE J. SNELLER (5587-414, Ext. 1947), LA. 5-8729. (18-5)

(Zone 6)
SANTA FE & HWY. 101. (Santa Fe, Artesia, Alameda, El Segundo to Plant 1), Long Beach. D. E. BROWN (5544-452, Ext. 2645), L.B. 356-486. (18-6)

CLAREMONT AVE. & APPIAN WAY, Long Beach 3. (Via Park Ave., Anaheim, Redondo, 101, Western, Rosecrans, Prairie). ROBERT F. BAKER 7510-211, Ext. 2438), L.B. 342343. 18-6

(Zone 7)
VERMONT & 182ND, Gardena. GRACE HAZLETT (4100-223, Ext. 2331). (18-7)

CARSON & VERMONT AVE., Wilmington. (Would like two or three riders). BOB E. EASTRIDGE (5514-221, Ext. 2681). 18-7

(Zone 9)
INGLEWOOD & REDONDO BEACH BLVD., Redondo Beach. BERNARD M. OLDZIEWSKI (5588-253, Ext. 1257 or 2617), FR. 4-1130. 18-9

(Zone 13)
SEPULVEDA & JEFFERSON, Culver City. GERTRUDE SOLIE (5507-229, Ext. 526), VE. 9-6069. 18-13

(Zone 14)
ROSE & JEFFRIES, Burbank. D. B. ANDERSON (7310-447 Ext. 2227), THornwall 6-8576. (18-14)

12:15 a.m. — 7:15 a.m.

(Zone 2)
WHITTIER BLVD. & SOTO ST., Los Angeles. A. S. Tyler (5501-879, Ext. 2200), AN. 2-5585. (19-2)

Miscellaneous (Split Shifts)

(Zone 5)
STUDEBAKER & CARSON. (Can take 3 riders, vicinity of Lakewood or Bellflower. Hours 4:15 to 12:45), Lakewood. JOHN ROMINE (7100-231, Ext. 110). (20-5)

(Zone 10)
INGLEWOOD AVE. & 144TH ST. (Hours 4:15 to 1:15), Lawndale. BILL NEWMAN (5587-619, Ext. 1947), OS. 6-4841. (20-10)

LYNWOOD

(Zone 4)
GARFIELD & IMPERIAL, Hollydale. (Prefer car pool, will pick up riders. Hours 4:15 to 12:45). BEVERLY NELSON (6310-214, Ext. 1611), MEtcalf 3-8303. (20-4)

Rides Wanted

7:00 a.m. — 3:45 p.m.

(Zone 2)
VERMONT & MANCHESTER, Los Angeles. ELAINE WORRELL (1435-20, Ext. 8721), PL. 1-1648. (2-2)

WESTERN & 193RD ST. (Interested in car pool), Los Angeles. JESSE T. VEAZY (5508-356, Ext. 2230 or 1463), PL. 6-6539. (2-2)

BROOKLYN & SOTO, Los Angeles. OSCAR SCHWARTZ (5587-103, Ext. 1947). AN. 2-8548. (2-2)

WASHINGTON & FIGUEROA, Los Angeles. A. DELEON (4405-49, Ext. 1424), RI. 7-1542. (2-2)

RIDES WANTED

7:00 a.m. — 3:45 p.m.

(Zone 3)
LONG BEACH BLVD. & PALM PLACE Huntington Park. C. HARTSON (6260-30, Ext. 2705), JE. 2745. (2-3)

RAMONA FREEWAY & HELLMAN AVE., Alhambra. MAX M. BRODERSEN (5222-343, Ext. 1919), CUmberland 3-3426. (2-3)

(Zone 4)
IMPERIAL & MAIN, Los Angeles. ESTHER P. UHL (5504-61, Ext. 1424), PL. 4-9428. (2-4)

(Zone 5)
DEL AMO & DOWNEY or Paramount, Lakewood. AL COTKIN (5587-399, Ext. 1947), L.B. 394-518. (2-5)

(Zone 6)
SORRENTO DRIVE & 2ND ST. (Will meet anywhere in vicinity of Belmont Shore or East Long Beach), Long Beach. DOROTHY JACKSON (5232-98, Ext. 2481), L.B. 908-682. (2-6)

REDONDO & 1ST STREET, (Belmont Heights). (Car pool if necessary), Long Beach. H. E. (GENE) PRICE (7100-25, Ext. 1611). (2-6)

(Zone 7)
MAIN & HWY. 101, Wilmington. B. C. RUSTMAN (5524-353, Ext. 2634). (2-7)

(Zone 9)
PACIFIC COAST HWY. & FRANCISCA or Sapphire. (Can meet at Curley's), Redondo Beach. BOB MARSHALL (5336-16, Ext. 1978), FR. 2-9518. (2-9)

PACIFIC COAST HWY. & SAPPHIRE, Redondo Beach. LORIN ANN BEWLEY (5352-48, Ext. 1445), FRontier 9-2688. (2-9)

REDONDO BEACH BLVD. & FIRMONA AVENUE, Redondo Beach. STEPHEN A. STEFFINS (5620-63, Ext. 2233), FRontier 4-0832. (2-9)

REDONDO BEACH BLVD. & HAWTHORNE BLVD., North Redondo. TINA BLYTHE (5532-58, Ext. 2181), FR. 9-2122. (2-9)

(Zone 11)
EL SEGUNDO BLVD. & MAIN ST., El Segundo. SUZY CHAPMAN (1435-92, Ext. 2761), El Segundo 1491R. (2-11)

(Zone 13)
SEPULVEDA & PICO, Los Angeles. JAKE GREEN (5622-36, Ext. 2133), AR. 7-7982. (2-13)

(Zone 14)
FLORENCE & CRENSHAW or Redondo, Inglewood. RALPH M. ETZEL (7230-36, Ext. 1573). (2-14)

WHITSETT & OXNARD, North Hollywood. MARY NELSON (1435-13, Ext. 2761). (2-14)

BEVERLY BLVD. & FAIRFAX. (Interested in car pool), Los Angeles. NEIL NIELSEN (5508-502, Ext. 2230), WH. 7767. (2-14)

GOWER & FRANKLIN or Hollywood Blvd. DAVID O. CARTER (5503-74, Ext. 1385), HO. 2-9050. (2-14)

7:30 a.m. — 4:15 p.m.

(Zone 1)
MANCHESTER & CRENSHAW, Los Angeles. JOAN MINER (1441-98, Ext. 2728), PL. 8-9878. (3-1)

(Zone 3)
SLAUSON & ATLANTIC, Maywood. (Interested in obtaining a ride from anywhere in the vicinity of Maywood, Bell or Huntington Park). GLENN MEDFORD (6110-19, Ext. 1221 or 1201), LA. 4974. 3-3

(Zone 4)
LAKEWOOD & IMPERIAL. (Interested in ride pool), Downey. JIM MAC DOWELL (5141-12, Ext. 514 or 515), TO. 9-5162. (3-4)

(Zone 5)
ANAHEIM—FULLERTON area. (Interested in car pool), Anaheim. TED WITSIL (3410-93, Ext. 1348). (3-5)

(Zone 6)
VERMONT & 170TH ST., Gardena. BETTY EMERY (9350-34, Ext. 2298), MEnlo 4-8924. (3-6)

(Zone 8)
WESTERN & 227TH ST., Torrance. ANNE KEIFERT (5100-22, Ext. 663), FA. 8-6374. (3-8)

(Zone 9)
COMPTON BLVD. & PRAIRIE AVE., Lawndale. DOROTHY BENNETT (1441-21, Ext. 2728), OS. 5-2089. 3-9

HAWTHORNE BLVD. & 182ND ST., Redondo Beach. ELZIE L. SHIELDS (9350-87, Ext. 2635). (3-9)

AVENUE "D" & HWY. 101, Redondo Beach. ROSALIE GEESAMAN (1435-55, Ext. 2228), FR. 5-1786. (3-9)

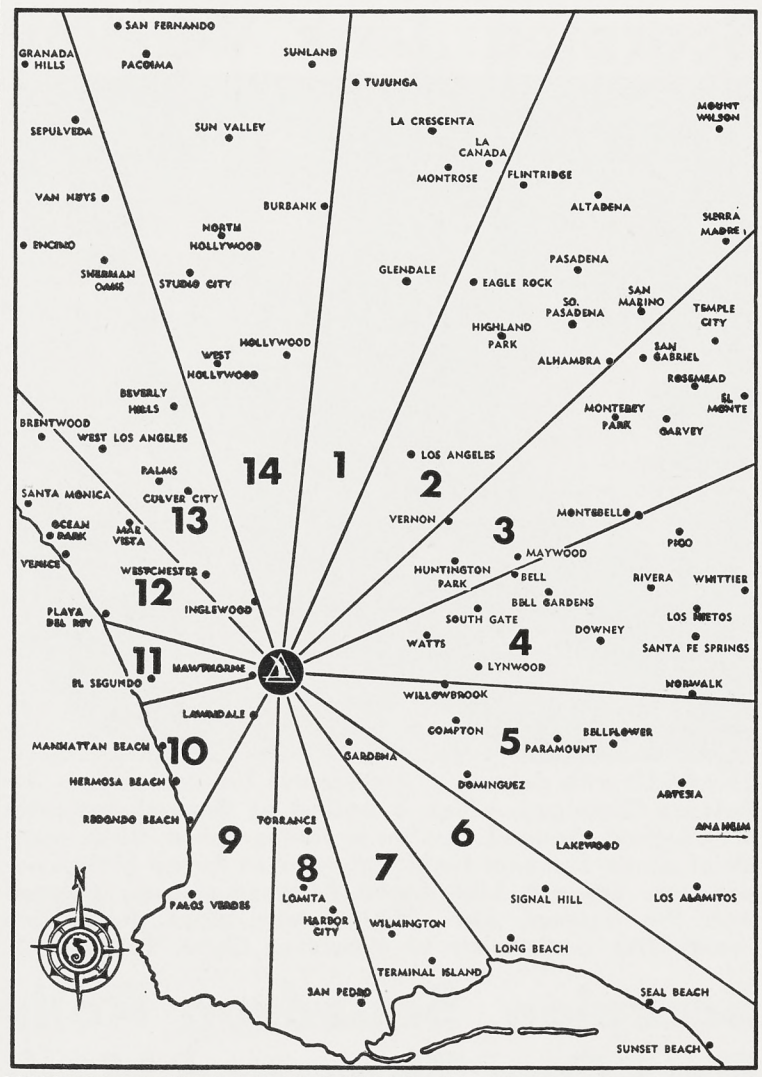
(Zone 10)
HWY. 101 & 3RD ST., Manhattan Beach. PAGE JENNINGS (5240-26, Ext. 2309), FR. 4-5644. 3-10

HAWTHORNE & 147TH ST., Lawndale. HARRIETT H. BROOKS (6110-65, Ext. 1749), OS. 6-0270. (3-10)

(Zone 11)
EL SEGUNDO BLVD. & MAIN ST., El Segundo. SUZY CHAPMAN (1435-92, Ext. 2761), El Segundo 1491R. (3-11)

(Zone 12)
INDUSTRIAL & FREEMAN, Inglewood. MINNIE M. LAUER (9500-17, Ext. 2254). (3-12)

(Zone 13)
BALBOA & SATICOY, Van Nuys. S. CHAIS (3230-725, Ext. 1570), DIckens 2-9384. (3-13)



RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 13)
LA BREA & ARBOR VITAE, Inglewood. (Would like a morning ride on May 13 and May 14, while my ride is away on vacation). ALICE L. PERRY (4100-41, Ext. 2331), ORchard 7-5320. 3-13

SEPULVEDA & 77TH or Manchester & Emerson, Los Angeles 45. ELAINE STEWART (6150-49. Ext. 2051). OR. 8-2452. (3-13)

BRADDOCK & OVERLAND, Culver City. CHARLES J. ADAMS (7010-18, Ext. 1911), VE. 9-9838. (3-13)

(Zone 14)
WHITSETT & OXNARD, North Hollywood. MARY NELSON (1435-13, Ext. 2761). (3-14)

REDONDO & VENICE BLVD., Los Angeles. (Route: South on La Brea to El Segundo Blvd., east on El Segundo Blvd. to plant). WAYNE V. DENNIS (3230-719, Ext. 553), WE. 8-4934. 3-14

7:30 a.m. — 5:15 p.m.

(Zone 6)
GARDENA BLVD. & VERMONT. (Ride home only), Gardena. ROBERT H. WILSON (3430-92, Ext. 1886), ME. 4-3084. (4-6)

3:45 p.m. — 12:15 a.m.

(Zone 1)
VERDUGO & CHEVY CHASE, Glendale. VERNON E. AHRE (7220-221, Ext. 2225), CI. 3-3318. (6-1)

(Zone 4)
SPRING & 109TH ST., Los Angeles. GILFRED J. PENN (5165-230, Ext. 1821), PL. 5-3842. (6-4)

(Zone 5)
CLARK & SPRING or Carson, Lakewood. SCOTT SEARING (5165-279, Ext. 1821), L.B. 57-035. (6-5)

(Zone 9)
HAWTHORNE & HWY. 101, Torrance. BARBARA COVEY (4100-211, Ext. 2331). 6-9

(Zone 12)
LINCOLN & MANCHESTER, Los Angeles. JOHN H. DAUDELIN (5501-242), OR. 1-9819. (6-12)

CENTURY BLVD. & INGLEWOOD AVE., Inglewood. JAMES EDWARDS (5445-281, Ext. 2252), OR. 2-7198. (6-12)

BUNDY & SANTA MONICA BLVD., Los Angeles 25. HAROLD K. FRIEND (5501-414, Ext. 2200), AR. 3-8535. 6-12

MAIN ST. & PIER AVE., Ocean Park. ROBERT TARBET (5520-253, Ext. 1233), EX. 9-9883. 6-12

SANTA MONICA BLVD. & BUNDY DRIVE, West Los Angeles. JAMES PAYNE (5501-413, Ext. 2200), AR. 9-6374. 6-12

(Zone 13)
CENTINELA & LA BREA, Inglewood. GAIL V. SWANSON (5223-413, Ext. 1365), ORegon 8-8851. (6-13)

VAN NUYS BLVD. & DELANO ST., Van Nuys. DAVID B. TULLIS (5501-407, Ext. 2200), STate 6-4738. (6-13)

SIERRA MADRE AVE. & LOS ANGELES ST., Baldwin Park. EDWARD L. BANKS (5501-292, Ext. 2200), EDgewood 7-3174. (6-13)

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Zone 1)
WESTERN & 7TH, San Pedro. JACK BROWN (5373-437, Ext. 1243), TE. 3-5408. (8-1)

(Zone 2)
ARROYO SECO FREEWAY & GLENARM, Pasadena. JOHN D. JOHNSTON (7310-213, Ext. 2237 or 2227), SYcamore 6-1014). 8-2

BROADWAY & 39TH ST. or Figueroa & Santa Barbara, Los Angeles. LEON JAMES NELSON (5524-659), PL. 8-0951.

(Zone 3)
GARVEY BLVD. & GLENDORA AVE. (Have 3 fellows driving each week. Want 1 more in vicinity of W. Covina, Covina, Azusa, Puente, to trade off cars each week), West Covina. GEORGE R. PRESLEY (5587-217, Ext. 2236). (8-3)

(Zone 5)
PIONEER & ALLARD, Norwalk. FLOYD BURCH (5584-259, Ext. 1381), TO. 4-2431.

BELLFLOWER BLVD. & LAUREL AVE., Bellflower. JOHN UPCHURCH (5224-224, Ext. 2247), AX. 2-1316. (8-5)

STUDEBAKER & CENTER or Rosecrans, Norwalk. B. M. JORGENSEN (5524-669, Ext. 2209). (8-5)

ORANGETHORPE & WOODS, Fullerton. EUGENE J. SNELLER (5587-414, Ext. 1947), LA. 5-8729. (8-5)

(Zone 6)
NORMANDIE & COMPTON, Gardena. MARY E. MAPLE (5507-499, Ext. 526).

CLAREMONT AVE. & APPIAN WAY, Long Beach 3. (Via Park Ave., Anaheim, Redondo, 101, Western, Rosecrans, Prairie). ROBERT F. BAKER (7510-211, Ext. 2438), L.B. 342343. 8-6

(Zone 12)
IMPERIAL & INGLEWOOD AVE., Inglewood. JACKIE M. SILVA (5373-410, Ext. 1496), OR. 1-2312. (8-12)

IMPERIAL & INGLEWOOD AVE., Inglewood. MINA M. CERCONE (5507-632, Ext. 526). 8-12

(Zone 14)
GLENOAKS & PALM or Magnolia, Burbank. KENNETH R. PETRI (5622-238, Ext. 2133), TH. 8-6513. (8-14)

12:15 a.m. — 7:15 a.m.

(Zone 2)
WHITTIER BLVD. & SOTO ST., Los Angeles. A. S. Tyler (5501-879, Ext. 2200), AN. 2-5585. (9-2)

(Zone 4)
FLORENCE & CALIFORNIA AVE., Bell. ALFRED MILLER (5501-812, Ext. 2200).

(Zone 14)
FAIRFAX & SUNSET, Los Angeles. ED. CLEMONS (5164-915, Ext. 2288), HO. 2-6863. (9-14)

Miscellaneous (Split Shifts)

(Zone 6)
COMPTON & WESTERN or Normandie. (Hours 4:15 to 12:45), Gardena. NORVELLA ARNDT (4240-212, Ext. 777), MEnlo 4-1900. (10-6)

LYNWOOD

(Zone 4)
GARFIELD & IMPERIAL, Hollydale. (Prefer car pool, will pick up riders. Hours 4:15 to 12:45). BEVERLY NELSON (6310-214, Ext. 1611), MEtcalf 3-8303. (10-4)

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

CEMETERY LOTS, 2 lots in section H, #231 & 232 in Inglewood Park Cemetery, both lots $350. DU. 4-0298. A

TIRES, 6:70x15, used, white sidewalls, set of five. JULES D. PRATTE, OS. 5-3944. A

BILLFOLD and matching coin purse, lady's, metallic cloth, like new, $3; beaded EVENING BAG imported from France, $3; men's CUFF LINKS, gold color, initialed "B", like new, $1; lady's diamond RING, $125. BERNARD C. BARTON. Reply in writing to Northrop News, Box 2007. A

TRUCK, 1929 pickup, good running condition, some extras, $50. JOSEPH SHETULSKI. Reply in writing to Northrop News, Box 2006. A

PACKARD, '48 4-door sedan, $350—take over payments of $42 per month; UTILITY TRAILER, 4x8, $45. D. R. ARMSTRONG. Reply in writing to Northrop News, Box 2005. A

MOTOR, 1½ h.p., 110-220 volts; RECORDERS, tape, disc, and wire; Hi-Fi AMPLIFIERS and SPEAKERS; Zenith "Wavemagnet" all-wave portable RADIO, price open. W. S. COOK. Reply in writing to Northrop News, Box 2008. A

MOVIE PROJECTOR, 8mm Keystone, 300 watts, F1.85 Ilex lens, $25; LAWNMOWER, Pennsylvania 18", grass catcher, and 10-year guarantee transparent plastic HOSE, used six months, all for $12; carry-all metal picnic ICEBOX, $5. R. FRANCESCHI. Reply in writing to Northrop News, Box 2026. A

AIR FORCE CLOTHING, officer's blouse, O.D. and suntan, size 37, good condition, $5 each; Air Force B-4 bag, olive drab, zippered completely, $8. M. ROMANO, FRontier 2-8019. A

HOUSETRAILER, 22' overall, contains electric refrigerator, water heater, and apartment size stove, good condition, $850. C. A. HOUGH. Reply in writing to Northrop News, Box 2010. A

DIAMOND solitaire, perfect blue-white, 57 points, $125. Reply in writing to Northrop News, Box 2001. A

CHRYSLER, 1948 7-passenger sedan, excellent mechanical condition, radio, heater, electric windows, spotless upholstery, good paint, pick up 10 payments, $49.17 each. LARRY MASTING, OS. 5-6112. A

HOUSETRAILER, 1948, 28', eastern built, three rooms and bath, dinette nook, 4½ closets, tandem wheels, electric brakes, electric refrigerator, butane stove with oven, sleeps 4, full price $1200. RALPH W. SHRADER. Reply in writing to Northrop News, Box 2014. A

CADILLAC, 1941, Model 63 sedan, Hydra-Matic, radio and heater, spotlight, excellent mechanical condition, very clean, $345. PL. 2-1006 after 5 p.m. A

CAMERA, professional Arco, tilt table top and tripod, like new, make offer. R. A. MASULLO, CL. 6-0963. A

HORSE, 6-year old white mare, parade type, flaxen mane and tail, 15-3 hands, well reined, gentle, no behavior faults, $175. AL HANLON, FRontier 2-1627. A

STOVES, full size kitchen ranges, one with chrome finish, one with top griddle, both excellent condition, $50 each. STRAUSS O. GIBSON, MEnlo 4-2766. A

TOOL CHEST, Craftsman #6500 with Elgin padlock and 2 keys, like new, bargain at $3.50. P. WALLMAN, AX. 3-2670 from 12 noon to 1 p.m. only. A

STUDEBAKER Champion, 1940, radio, heater, overdrive, good transportation car. ELLIS KENNEDY, MEnlo 9-4139. A

WATCH, Lady Hamilton, custom made, waterproof and shockproof, never used, will sell for $29. C. DOUMONT, FR. 4-9643. A

GUN CASE, 48" DuPont plastic, sheep wool lined, zipper, like new, $10 or best offer. BRUNO ZURAWSKI, REpublic 3-5313. A

HOUSE, two-bedroom stucco in Alondra Park, 2-car detached garage, large kitchen with lots of tile and cupboards, insulated, thermostat-controlled heat, nice fenced yard, only 10 minutes to Northrop, priced for quick sale. R. CARMICHAEL, MEnlo 4-3706. A

DEEP FREEZE, 18 cubic foot, upright store type, oak finish, two doors, locking handles, General Electric unit, excellent condition, $135. F. G. EAGAN, WYoming 1356. A

FOR SALE

OLDSMOBILE, 1941, 6 cylinder, good transportation car, good tires, seat covers, radio, new battery, clean, $150, or make offer. R. DICKASON, FR. 5-3938. A

SOUND PROJECTOR with speaker, Bell & Howell, Model 156, excellent condition, $225. JAMES BOWMAN. Reply in writing to Northrop News, Box 2004. A

HOUSE, 2-bedroom, fenced, weatherstripped, patio with large fireplace and Bar-B-Q, hillside corner lot, near school and park, $9950. CHAS. MARTZ, FR. 5-3225. A

DARKROOM EQUIPMENT, new cold light professional 4x5 Dejur enlarger with 6" and 3" Zeiss Tessar lens; also other darkroom equipment in fine condition, $135. KURT W. PESTER. Reply in writing to Northrop News, Box 2003. A

OLDSMOBILE, 1941 club coupe, clean, good transportation, 6 cylinder, $200. W. J. WILCOX, DA. 6-5471. A

WASHING MACHINE, Bendix automatic, with all attachments, good condition, $40. B. W. JORDAN, DAvenport 6-4336. A

PACKARD, '48 deluxe 4-door sedan, good condition, radio, heater, overdrive, Velon seat covers, one owner car, $550 cash. TED STRONG, Long Beach 402293. A

OUTBOARD MOTOR, 16 h.p. Elgin, very good condition, runs good, forward, neutral, and reverse shift, separate 6 gallon fuel tank, $175. STEVE SABO, OR. 1-4172. A

OLDSMOBILE, 1941, Hydra-Matic, 4-door sedan, black, $245. AL LEITCH, CR. 6-1708. A

DINING ROOM SET, table and 6 chairs, Prosperity gas RANGE, any reasonable offer will take. LOUIS A. KLIMAS, OSborne 6-4197. A

BED DIVAN and CHAIR, green frieze, $50. MARJORIE McCORMICK, OSborne 6-5958. A

WHEELS, two 6:00x16, 5 hole, $3, EDNA C. ERTZ, FRontier 5-4432. A

PLYMOUTH '36, 4-door, radio, trailer hitch, $35. HALL EVANS, AR. 7-1727 A

CHEVROLET, two-door coach, late 1949, runs and looks like new, $675 cash. ROBERT BARR, PL. 6-5539. A

TABLE SLIDE VIEWER, Eastman Kodak, 4x, like new, cost $49.50, $25. H. D. HEAVERLO, El Segundo 2358W. A

HOUSE, three-bedroom, in Badger Park, just 5 minutes from Northrop, by owner, corner lot and double garage, $11,500. ROBERT E. JONES, OSborne 6-9770. A

TIRES, 7:00x16, four complete with wheels, plus good RADIO with Buick head, will sell complete or individually, $50. BILL DALY, OS. 6-4814. A

MOTORCYCLE, 1950 Norton, model ES2, 30-50 cubic inch, single cylinder, excellent condition, good tires, English tools included, fenders, lights, and windshield, has never been stripped or used for hill climbing, best offer over $300. PAUL E. CAPPS, LYcoming 2-8352 (Pomona). A

WASHER, late model, Kenmore semi-automatic, good condition, $50; LAUNDRY TUB, deluxe with stand, price open. DON L. KIRKSEY, MEnlo 4-2280. A

HUDSON Hornet, 1952 four-door sedan, dual-range Hydra-Matic, clean, excellent condition, 1954 license tabs, $1450; 1950 HUDSON cream colored convertible, new black top, new paint job, red leather upholstery, excellent condition, 1954 license tabs, $800. GAVIN BURNS, PL 5-0541. A

TABLE SAW, Craftsman 8" tilting table, 38" blades, complete set of dado blades, ½ h.p. capacitor motor, mounted on bench complete with belt, pulleys, etc., $45; Monroe electric CALCULATOR, old style non-automatic, recent complete overhaul by Monroe Company, perfect condition, $100. F. G. EAGAN, WYoming 1356. A

PLYMOUTH, 1949, radio and heater, $500, will take older model pickup as part payment, $500. ABE ROMERO. DA. 6-2396. A

COAT SET, girl's two-piece, grey with red trim, size four, like new, $4. ALLEN E. WHEELDEN, JR. Reply in writing to Northrop News, Box 2021. A

PUBLIC ADDRESS SYSTEM with record player and amplifier, mobile or auditorium, complete with 25 W speaker and astatic microphone with collapsible stand, $150. W. L. CONDIE, FR. 9-4103. A

FOR SALE

HOUSE, lovely three-bedroom modern, in Kentwood Park Estates, wall to wall carpeting, drapes, picture window off patio, corner lot extensively landscaped, wired for electric stove, garbage disposal, and all just decorated, OR. 1-3487 after 5 p.m. V. BAUBY. A

HOUSE, two-bedroom, hardwood floors, new paint job, 950 sq. ft., frame-fenced, insulated, completely landscaped, 2 six-year old fruit trees, $8950 — make offer on down payment. D. S. CAHILL, DAvenport 6-6666. A

BICYCLE, Schwinn, girl's 26", white side walls, basket, like new, $35. DOROTHY E. WAHL, OR. 7-3257. A

HOUSETRAILER, 1946 National, 25' electric refrigerator, sleeps four, A-1 condition, consider vacation trailer as down payment, $695, 1/3 down, E. S. JACOBSEN, OR. 1-9953. A

TRAILER, utility, 4½'x9'x4', will carry 3000 lbs., ideal for moving, landscaping, $100; EXPOSURE METER, Norwood Director, used very little, like new, with disk and grid, $30. C. M. OLSON, OSborne 5-6500. A

TRANSMITTER, Johnson Viking, with Viking VFO antenna relay, crystal mike and speed bug, $295. D. WESTFALL. Reply in writing to Northrop News, Box 2022. A

TRAILER, one-wheel, like new, complete with rack, tarp, hitch, and extra tire and tube, $75. EUGENE V. SCHULDT, OR. 2-4146. A

VACUUM CLEANER, Hoover tank type, excellent condition, terrific buy, only $20; DEEP FREEZE, 17 cubic feet, excellent condition, like new, $190. W. WILLIAM WILL, L.B. 398-925. A

GOLF CLUBS, 2 woods, 5 irons and bag, $40. GEORGE BRATZ, NE. 8-5348. A

FORD, Zephyr, 1953, 12,000 miles, economical transportation, $1100 — full price, radio and heater, red leather upholstery, sells for $1975 new. ANN BLEDSOE, OR. 8-3161. A

BABY CARRIAGE, "Boodle Buggy", removes for carbed; Kantwet carriage MATTRESS, original cost $33.50, perfect condition, $18.50; CAMPING and FISHING EQUIPMENT, perfect condition — two-burner Coleman STOVE, $6; two deep sea REELS, $5 each; two H-I fiberglass lake RODS, $6 each; two lake REELS, $3 each; two waterproof, 100% wool lining, SLEEPING BAGS, will zip together as double, $10 each; two rubber air MATTRESSES, $6 each; two HAVERSACKS. $2 each, prices are approximately 50% of original cost, will include free one fishing net, two plastic CANTEENS with canvas covers, and lots of hooks, nylon line, etc., with large purchase, all like new. JOSEPH K. SLAP. Reply in writing to Northrop News, Box 2015. A

BABY BED. C. B. MC COY. Reply in writing to Northrop News, Box 2016. B

TRAILER, two-wheel with bed for hauling gravel and/or dirt, $38 or less. W. HARBERT, FR. 9-1906. B

SEWING MACHINE, used, electric, reasonably priced. R. A. REED. Reply in writing to Northrop News, Box 2017. B

MOTOR, outboard, Elgin 5½ h.p., rewind starter, excellent condition, extra prop, etc., $70, terms. M. M. HUNT, DU. 4-6121. A

RANGE, apartment size, good condition, oven bakes perfect, pilot burners, must see to appreciate, $25; one set coil BED SPRINGS, like new, $20. T. L. WHITTINGTON. Reply in writing to Northrop News, Box 2013. A

PONTIAC "8" 1954 Starchief 4-door sedan, only 1700 miles, radio, heater and Hydra-Matic, beige and cream exterior and interior, only $2895 for quick sale. C. H. BERNHARDT, ORchard 1-6460 or ORchard 1-4266. A

PLYMOUTH, 1943 Special deluxe 4-door sedan, clean, good transportation, $150. DAVE JOHNSON, WY. 1101. A

FREE EQUITY—1947 Chevrolet 4-door two-tone sedan, radio and heater, needs radiator repair and grille work, otherwise good condition, assume payments of $31 per month, balance $377; lovely 6-piece walnut BEDROOM SUITE, including matching cedar chest—$75. E. STEINER, TOrrey 4-0868. A

RABBIT HUTCHES, two double, $4 each; and two single, $3 each; screen bottom and fronts, very good condition. FRANK MANSFIELD. Reply in writing to Northrop News, Box 2012. A

ARC WELDER, 150 amp., D.C. 220 3-phase; Bridgeport MILLING MACHINE, also other tools, make offer. E. F. GREEN, TW. 0059. A

LAWNMOWER, $5; VANITY and BENCH, $5; 1936 OLDSMOBILE convertible, $70; two 9x12 wool RUGS, $5 each; miscellaneous LAMPS and FURNISHINGS from $1; model RAILROAD EQUIPMENT, HO scale, make offer, all in good condition. PAT CARLBERG, OS. 5-5064. A

GAS STOVE, Magic Chef, oven regulator, light, table top, black and white, $40. HENRIETTA EDINGER, PLymouth 66174. A

BEDROOM SET, provincial maple, twin beds, Mr. and Mrs. chest, night stand, excellent condition, $150; custom made provincial print twin BEDSPREADS green, $25 both. E. L. BOASE, FRontier 40044. A

WASHING MACHINE, wringer type, white porcelain, excellent condition. Hotpoint, $25. DOROTHY TROY, AX. 3-4149. A

FOR SALE

FUSE-BOX & METER BASE, heavy-duty, 220, $12. VIVIAN EAVES, OS. 6-2897. A

PONTIAC, 1949 8-cylinder 2-door sedanette. w/w tires, radio, heater, airfoam seats, seat covers, Hydra-Matic, dual-range, mechanically good, $800. BERNIE FRANKE, FRontier 40044. A

TIRES, white sidewalls, 6:70x15, set of five, slightly used. J. D. PRATTE, OS. 5-3944. A

HOUSE, 3-bedroom, on 5 acres, 3 miles west of Northrop, $11,500 — $2000 down, located between Palmdale and Lancaster. L. H. GRAHAM. Reply in writin to Northrop News, Box 2024. A

CAMERA, 2¼x3¼ Crown Graphic f.45 Ektar lens, Synchro-rapid 800 shutter, Kalart rangefinder, Graflex flash, holders, film pack adapter, film and case, $70 and take over 7 bank payments of $23.40; DeJur II enlarger, easel, cutting board and Time-O-Lite, $105. D. F. ROBBINS, PL. 5-0056. A

HOME, rambling type, 4-bedrooms, upstairs study, 3 baths, many avocado and citrus trees, ½ block to tennis courts and swimming pool in Uplifters Ranch, Santa Monica Canyon, now $21,930. M. H. DAZEY, FR. 5-5298. A

DINETTE SET, kitchen chrome, 6 chairs, $60; Admiral Dual Temp REFRIGERATOR, 11 cu. ft., $200; BEDROOM SET, head piece and dresser, blonde, $150; BUNK BEDS, maple, like new, $125. JUANITA M. GRATTON, OXford 6-1081 after 5 p.m. A

TYPEWRITER, Remington, noiseless, late model, like new, pica type, $52.50. F. DU PRIEST, L.B. 9-3019. A

CLARINET, black ebony wood; Stradivarius VIOLIN. J. H. BUSH, OS. 6-6449. A

DODGE Coronet, 1949, excellent and clean condition, Gyro-Matic and all extras, best offer. MARISE COUNSELL, OS. 6-7427. A

HOUSE, large family home within 3 blocks of Northrop, must sell immediately due to illness, will sell equity for $4380. DAVID O. PETERSEN, OSborne 6-0947. A

DEEP FREEZE, 13 cu. ft., 1 year old, four year guarantee remaining, $200 — $465 original price. C. D. FULLER, TW. 3908. A

CEDAR CHEST, mahogany finish, tray attached to inside of lid, looks like new, original cost $59.95, make offer. SHIRLEY JOHNSON, ORchard 7-6655. A

V-8 ENGINE, 60, complete, and transmission, $25; 1927 Model T roadster body, $20. CHUCK QUESNEL, FR. 2-8721. A

CHEVROLET, 1946, 4-door, radio, heater, clean throughout, good tires, best offer takes; 8 cu. ft. REFRIGERATOR, recently overhauled, best offer. H. RICHCREEK, EX. 6-0447. A

FORD coupe, 1938, good condition, 4 new tires, call after 6 p.m., $60. OS. 5-2159. A

FOR SALE

DIVAN and matching CHAIR, also miscellaneous pieces of furniture, all in excellent condition, will accept best offer. VErmont 9-5375. A

TARGET PISTOLS — K22, K38, and .45 automatic, hardwood case with spotting scope mounted inside lid, all new condition, ammunition included, $175. GEORGE LONG, FRontier 2-1870. A

ELECTRIC RAZOR, Remington 60, used only 5 months, cost $27.50 new, will sell for $10. L. A. MASSENGILL, FRontier 5-6400. A

HOUSE, 4-bedroom stucco, large living-dining room, large kitchen with service area, total area 1390 sq. ft., tile bath, venetian blinds, fenced back yard, landscaped, thermostat-controlled furnace, Hawthorne, $11,750 with $2000 down. THOR E. LUNDGREN, OSborne 6-7427. A

HOUSE, 2-bedroom, near El Camino College and Compton-Crenshaw shopping, qualified California veteran $1500 down, $45 month, $9650. STEPHEN S. YSLAS, AX. 2-8996. A

DINING ROOM SET, 8-piece walnut, excellent condition, buffet, 6 chairs, extra table leaves, must be seen to be appreciated, $50. J. MEYER, FR. 2-9097. A

MERCURY, 1941 convertible, 10,000 miles on new engine, radio and heater, good tires, $225 cash. M. G. PERRY. Reply in writing to Northrop News, Box 2025. A

MOTOR SCOOTER, 1952 Powell, 12 H.P., good condition, $75. A. S. McDONALD. Reply in writing to Northrop News, Box 2028. A

PARAKEETS, beautiful, young, healthy birds, all colors, will make wonderful pets, or future breeders, $3 each, LOUISE T. McCULLOCH, ORchard 2-2434. A

HEDGE CLIPPERS Sunbeam electric, used only three times. $25, C. W. STIPE, PL. 5-0057. A

LAND, ½ acre home site in Richland Farms, Compton, LYNN BRUNSON, NEwmark 5-2490 after 5 p.m. A

FORD, '37 coupe, $70. P. A. CLARKE, PL. 3-9822. A

COMMUNICATIONS RECEIVER, B.C. 348, works good, $50, W. K. CLINE. Reply in writing to Northrop News, Box 2027. A

COLLIE PUPS, AKC registered, sable and white, 8 weeks, pet and show stock, stud service, J. P. LA VELLE, OS. 6-4698. A

STUDIO COUCH, used only 3 months, $45, W. KEARNEY, ADams 4-7470. A

PIANO, 5' baby grand Mathushek, full sound and keyboard, mahogany, very good condition, no reasonable offer refused, asking $500; junior size maple BED, never used, $25. DI. 2-0313. A

AUTO RADIO, Coronado, push button, universal mounting type, very good condition, excellent set up for rear seat speaker installation, $15. T. A. MCALISTER NE. 8-3592. A

FOOTBALL SHOULDER PADS, spring steel, in excellent condition, $10; pair of TRACK SHOES, size 9, $5, or trade both for skin diving equipment. RON WEESNER, TW. 1368. A

(Continued on Page 8)

"Did Louie go back to the office?"

BBSF CLASSIFIED

(Continued from Page 7)

FOR SALE

PONTIAC, 4-door, 1948, radio, heater, Hydra-Matic, $450. ROBERT LLOYD, TW. 8270. A

SCOOTER, '47 Cushman, just overhauled, headlight and tailight, rear view mirror, $40. EARL A. JOHNSTON, JR., OS. 5-3851. A

BABY CRIB, white, 6-year, never used, 3 months old, price new, $31.95, asking $18; pair French tournament FENCING FOILS, one never used, other slightly, $10. L. D. McMAHON, TOrrey 5-5508. A

ELECTRIC STOVE, table top, clean condition, $50. H. S. CARRIERE. Reply in writing to Northrop News, Box 2035. A

TRAILER, two-wheel utility trailer with hitch, 15" wheels, good tires, excellent condition throughout, $30. J. GATTIAN, OR. 1-5570. A

DESOTO '52 custom convertible, $1399, radio and heater, automatic transmission, w/w, special white leather interior. OR. 7-9802. A

BABY BUGGY with pad, $5; BASSINET with liner and pad, $7; COFFEE TABLE with glass top, $10; SINKS for restaurant; vent hoods for restaurant, lighting fixtures for business, reasonably priced for quick sale. L. BEST, PLymouth 5-4459 after 5:30 p.m., all day Saturday and Sunday. A

TIRES, four 6:70X15 U.S. Royal white sidewalls, fair condition, cheap; blonde COFFEE TABLE, reasonable; women's white figure SKATES, size 6, like new, $9.50, WARNER S. DUNCAN. Reply in writing to Northrop News, Box 2034. A

DODGE, 1942, GI ¾-ton pickup, good condition, full price, $200, licensed for 54; 12½ h.p. OUTBOARD MOTOR gearshift new in '52, used 3 times, never in salt water, $200; will take ½ down, balance in 2 payments of $50 a month. J. FINNEGAN, FRontier 4-7296. A

HOUSE, two-bedroom, in Manhattan Beach, corner lot, attached double garage, tiled kitchen and bath, $9950, H. L. WARD, FR. 4-3890. A

REFRIGERATOR, Coldspot, A-1 condition, recently rebuilt, carries 60 day guarantee, $55. DAVE DAWSON, OS. 6-2006. A

DOGS, female tri collie, male sable collie, very good disposition for children, good breeding stock, 3 months old. GEORGE A. GUTHRIE. Reply in writing to Northrop News, Box 2032. A

RUGS, super Nichols Chinese, pre-war, handmade, two 9X12, two 3X5, one 2'6" X4'6", cost over $3000, $1800; EXERCYCLE, deluxe model, cost $400, used 6 months, perfect condition, $187.50. RALPH BAKER, TH. 8-6335. A

FORD, 1941 4-door, new tires, heater, $100 cash, when calling please ask for SHEIK or BOB, DU. 2-1607. A

CARTOP BOAT and CARRIER, 12' Wizard, $175; 12' Sears plywood SKIFF, $75; 10 man rubber LIFE RAFT, $15; 75 watt ship to shore 120 110V Hallicrafter RADIO and RECEIVER, $350; chrome DINETTE SET, $10; ANCHOR WINCH, $15; TEA WAGON, $10; Whitney HANDMILL, good condition, 1 h.p., 3 phase motor, $350; nearly new Craftsman LATHE and TOOLING, $350; metal cutting Walker Turner BANDSAW, $175; Walker Turner floor model DRILL PRESS, $75. OS. 6-2564. A

CHEVROLET, 1953, two-door BelAir, want $200 cash for my equity, balance $1725, GMAC financing. KATHRYN A. MCCULLOUGH, NE. 2-5792. A

TRAILER, 1947, all metal Westwood Tahoe, 25', very clean and in perfect condition, $1150; standard portable SEWING MACHINE with carrying case, like new, electric, $85; 27" girl's BICYCLE, new tires, good condition, $20; W. N. HUNGERFORD, OSborne 6-9087. A

CHEVROLET, 1936 4-door, excellent mechanical condition, radio, just had valve job, good work car, $65 cash; two TWIN BEDS with metal springs, $12 for both; Easy Spindry WASHING MACHINE, spinner needs repairing, $15. BOB MEFFAN, FR. 4-2649. A

PIANO, Royal upright, bungalow size, mahogany case, excellent condition, bench included, $295; RADIO, Peter Pan, table model, plays, $3; SPORT COAT, man's grey and beige stripe, size 42, (large), worn 3 times, imported wool, cost $85, take $30; WATCH, Hamilton, man's pocket, 21 jewel, yellow gold, lever set railroad standard, Cost $110, sell $70, new condition. FRED R. GARY, ORchard 7-7504. A

MOTORCYCLE, 52 AJS 21", excellent condition, reasonable, one owner machine. $250. AL YEAGLE, OSborne 5-6007. A

BUICK, 1940 Super, will make someone a good transportation car, $85. AL PROPES. Reply in writing to Northrop News, Box 2030. A

HOUSETRAILER, 18' with awning, heater and cook stove, $500; TV, PHONOGRAPH and RADIO, Admiral 10" with 3 speed phonograph, inside aerial, just overhauled, $150. DYER A. OLSON, DUnkirk 4-3924. A

MOTORCYCLES, two, in excellent condition, 1948 Indian Chief with full dress, $225; 1949 Harley with foot shift and full dress, $475. BETTY J. STAGE. Reply in writing to Northrop News, Box 2029.

FOR SALE

HOUSETRAILER, 20' cottage type, good condition, complete with 10X16 awning and 5X16 side drop awning; BUICK, 1953 convertible, loads of extras; MUSICAL INSTRUMENTS — Boosey-Hawkes CLARINET, Slingerland green pearl DRUM SET, Kay blond BASS FIDDLE. CAROLINE WILDES, FR. 2-1384. A

ENGINE, V-8 Ford Sixty, including transmission and accessories; ideal for sports car or boat, no reasonable offer will be refused. G. T. STERLING, OSborne 6-3713. A

LAND, 355½' frontage, 62' to 90, deep, located on Hwy. 41, on 2200' level, ¼ mile from Coarsegold, California, 50 miles from Yosemite, 15 miles from Bass Lake, 7 miles to Oakhurst, new well costing $3000, plenty water, asking price $4000 cash or terms; 5.7 acres with creek, 500' of frontage on all-year Yosemite Hwy. 41, ½ mile from center of Coarsegold, 15 miles from Bass Lake, ideal motel site, $4800 terms. GEORGE W. KENT, OR. 2-8650. A

WANTED TO BUY

TAPE RECORDER, A-1 condition, must have forward and reverse gear, cash, must be reasonable. C. R. (TEX) RHODES. Reply in writing to Northrop News, Box 2009. B

BABY CRIB less mattress. WM. A. RABORG JR., TOpaz 9-0068. B

PLAYPEN and/or HIGHCHAIR, reasonable. RUTH M. CRAIG, OReaon 8-8805. B

ARMY RIFLE, Springfield 30-06, in original condition, must have good action and fair barrel. J. M. PHIPPS, FR. 5-2303. B

BUNK BED SET, reasonable. MALCOLM C. KOSTENBADER, OR. 2-9398. B

MOTORCYCLE, any good running American or foreign make, will pay $100. G. E. WESSOCK, AX. 1-5894. B

REFRIGERATOR and STOVE. M. HANBERG. WH. 8095. B

MILLING ATTACHMENT for 9", 10" or 11" lathe, also 6" or 8" 4-jaw independent CHUCK for 1⅛"-8 spindle thread. LEE MELLINGER. Reply in writing to Northrop News, Box 2033. B

LAWNMOWER, rubber tires, in working order. HARRY KLINE, AX. 2-4146. B

FOR TRADE

WILLYS, 4-door sedan, 1939-1940 engine, perfect condition, completely overhauled, will trade for small piano in good condition. H. J. BOARDMAN, El Segundo 1786-M. C

FORD, '46-'48, trade older Dodge as part, A. CALMAN, JR., TOrrey 7-8270. C

SPARK PLUGS, will trade 14 new and 6 rebuilt Champion C-26-S spark plugs for one serviceable 4 cylinder magneto with impulse coupling. O. M. CYTRON. Reply in writing to Northrop News, Box 2036. C

WOOD JOINER, 5½", practically new, will trade for band saw. M. KRAVETS, TO. 4-5554. M

FOR SALE OR TRADE

OLDSMOBILE, 1936 coupe, 6 cylinder, A-1 condition, good transportation car, in excellent condition throughout, good tires, $50 or what have you. AX. 7209. A

CHEVROLET, 1949, 10-wheeler, deluxe cab, '51 270 GMC engine, Watson transmission and 2 speed Eaton, flat-bed with roller and lumber cinches, nearly new tires. E. M. LEWIS, NE. 5-3430 or NE. 5-8946 after 5 p.m. A

BUICK, 1941 4-door sedan, radio, heater, etc., will sell for $165 or trade for shop tools or what have you? LARRY LAUER. Reply in writing to Northrop News, Box 2002. M

WASHING MACHINE, Kenmore automatic 1950 tie-down, used three years, best offer or trade. JOHN COUBERLY, DA. 6-5990. M

CAMERA, Canon. FP 1-8 lens, portrait lens, filters, flash unit, tripod, sun shade, self timer, camera holder, bulk film magazine, camera bag, etc., or trade for late model sewing machine and shotgun in good condition, camera must be seen to be appreciated, in new condition, approximate value $400, $250. PAUL E. CAPPS, LYcoming 2-8352 (Pomona). M

COLT. '45' Frontier and ammunition, or 2 WHITEWALL TIRES, 6:70x15, like new, or Bretting '9' all-wave RECEIVER, will trade for small 10' to 18' HOUSETRAILER, okay if needs work, price open. J. R. CONFAR, NE. 8-4461. M

PUP, Weimaraner, perfect silver gray female, champion show and hunting stock, will trade for automatic washing machine. JAMES BRUNET. Reply in writing to Northrop News, Box 2011. M

HOUSETRAILER, 22' Streamlite with full bedroom and rear exit door, needs interior repairs, frame and gear excellent ideal for a handyman, has many possibilities, sacrifice $190 or trade for ? JOS. F. DENISE. Reply in writing to Northrop News, Box 2031. A

FOR SALE OR TRADE

COLLECTOR'S ITEM, large collection of U.S. and foreign pistols, rifles, and ammunition, will trade for certain Nazi war trophies such as uniforms, documents, medals, and daggers. AL WATERHOUSE, RE. 7388. A

BUICK, 1949 Super 4-door, nice throughout, will take 12 h.p. outboard motor for my equity — balance $843; 35mm DARKROOM EQUIPMENT, will sell or trade for fishing equipment, or anything of equal value; HOUSE, 2-bedroom stucco, hardwood floors, 50' X 150' lot, will redecorate interior to suit buyer, balance $5800 — will trade equity and furniture for 35' housetrailer, total price $8000. G. L. NICKEL, FR. 2-0585. M

FREE (To be given away)

KITTENS, six, mixed Siamese and tiger cats, black & white striped tigers with Siamese features, will be ready for delivery to good homes about middle of May, 3 males, 3 females. J. M. PHIPPS, FR. 5-2303. D

LINCOLN ENGINE, 1941, complete with heads and manifold, fair condition, free. L. A. MASSENGILL, FRontier 5-6400. D

DOG, male, part cocker, very good pet, house broken, given free to good home, A. CALMAN, JR., TOrrey 7-8270. D

RENTALS OFFERED

HOUSE, two-bedroom, unfurnished, on view lot in Manhattan Beach, $100 per month. GEN. LAYNE, FRontier 9-1483. E

TRAILER, 22', clean inside and out, 3 rooms, large enough for one or two people, very reasonable. A. C. DELL, OS. 5-3967. E

ROOM, private bath, private entrance, new, furnished, price not available. OTTO WALTER, OS. 5-6422. E

VACATION TRAILER, 14' walk-in type, sleeps 4, weighs only 1275 lbs. complete with lights, butane stove, sink, ice box, and hitch, reservations taken now, $30 per week. V. F. RILEY, FR. 5-2780. E

ROOMS, 1 — $10 per week; 1 room with garage, $12 per week, share bath with one, available May 1, men preferred, new house, located vicinity Prairie & 182nd. Reply in writing to Northrop News, Box 2019. E

ROOM, large comfortable bedroom, twin beds, adjoining bath, private home, one or two men, $10 per week — one man, $12.50 per week — two men, Redondo Beach, FR. 4-1726. LORIN ANN BEWLEY.

APARTMENT, unfurnished, new one-bed room disposal, TV antenna, near Northrop and transportation, adults only. ETHEL G. SIMPSON, OS. 6-5425. E

HOUSE, 1-bedroom, large rooms, five minutes to Northrop, $70 per month, utilities furnished, adults only, working couple preferred. OSborne 6-8250. E

DUPLEX, 1-bedroom, unfurnished, adults only, close to Northrop, $50. GERALD H. ANDERSON, OS. 52880. E

NEW APARTMENT, 4 blocks from Northrop, new furniture including piano, TV and sewing machine to share with young woman. JEAN HUDSON, OS. 6-6417 after 5 p.m. E

HOUSE, three-bedroom furnished. DAVID J. HADDAD, OS. 6-9567. E

ROOM in private home, man preferred, center of Gardena, private entrance, transportation to Northrop available 7:30 to 4:15 or 5:15. MRS. CAROLYN WILSON, MEnlo 4-3084 after 5:30 p.m. E

BEDROOM, furnished, for gentleman, in private home with congenial couple, home privileges, close to Northrop. Please telephone evenings only and ask for "PATTERSON", ORchard 1-9924. E

DUPLEX, rear half, unfurnished, 2-bedroom, includes automatic washer, garage and fenced yard, located in Gardena, ten minutes from plant, $75 per month, H. FARRINGTON, PL. 5-8158. E

UPPER APARTMENT, unfurnished, panoramic view, 2-bedrooms, ivy-enclosed yard, garage, TV antenna installed, 2 private entrances, near Morningside Heights, option to buy, redecorated in 1953, clean, only $80. K. P. STRANG, PL. 6-1138. E

ROOM, for man, near Plant One, share house with two others, $40. AL YEAGLE, OSborne 5-6007. E

RENTALS WANTED

HOUSE or apartment, unfurnished, not more than $70 a month, near Northrop if possible. GLORIA ROSS, OS. 5-5363. F

HOUSE, 3 or 4 room, private yard, couple only, will take excellent care of, within five miles of Northrop, wanted immediately, can pay up to $55 per month. L. E. MOORE. Reply in writing to Northrop News, Box 2018. F

APARTMENT, 1-bedroom, partly furnished or unfurnished, $65 maximum. WHitney 8095. F

CHILD CARE OFFERED

CHILD CARE, two experienced teenagers, $.40 an hour. WILLIAM BASS, OR. 1-0715. G

CHILD CARE, mother of Norcrafter, experienced and having a way with children, wishes to care for 2 or more children, days, in the area from Slauson and Vermont towards El Segundo, $25 a week. ALICE WILLIAMSON, TW. 1850. G

NRC Boat Club Cruise

CRAZY MIXED-UP painters. Harold Senter and Elmer Chiodo of NRC Boat Club are slightly distracted in their preparations for forthcoming Memorial Day Boat Club cruise by lovely deck hands Janice Swan, Reliability Section, and Delores Feck, Specifications department. Elmer, Club comish, invites all Norcrafters with boats to register for gala 3-day cruise to Catalina. Landlubbers may book passage on charter boat. (See story below for details.)

Boat Cruise To Catalina By NRC Salts On May 29

A very gay May will be had by NRC Boat Club members if scheduled events are any indication.

Highlight of the month will be a three-day Memorial Day cruise to Catalina. All Norcrafter boat owners are invited.

Boats will rendezvous at the San Pedro lighthouse at 6:00 a.m. on Saturday, May 29. Free mooring will be provided in Avalon Bay and the program includes fishing contests, a luau, and a steak dinner on the beach — all free, courtesy of the NRC.

For those who do not own boats — passage may be booked on a chartered sailing schooner. Price for the three-day cruise is $16 per person plus food.

The schooner is scheduled to sail at 8:00 p.m. on Friday, May 28 (fair winds permitting) from Yacht Haven, Wilmington.

Reservations for the schooner and registration for the boats may be made at the Personnel Activities and Services office, extension 2784.

Another important Boat Club date is May 22. On that day the "down to the sea" boys and girls will gather in the NRC Clubhouse for the semi-annual NRC Boat Club dinner-dance.

Dinner starts at 7:30. Tickets may be purchased at PA&S, Plant I.

Club commissioner, Elmer Chiodo, invites all Norcrafters to attend.

CHILD CARE OFFERED

BABY SITTING, evenings and week-ends, excellent references, Southwest area. GENEVIEVE LEES, PL. 6-5186 evenings. G

CHILD CARE, girl age 15, wants to offer her services for baby-sitting. Reply in writing to Northrop News, Box 2037. G

CHILD CARE, all ages, hot lunches, big fenced yard, guarded porch, close to plant, babies up to two years, $15 per week; school age, $10; pre-school age, $12.50. J. E. CLARK, OS. 6-6566. G

CHILD CARE WANTED

CHILD CARE, Monday through Friday during summer months, at my home or close by. MRS. ELEANOR ARRASMITH, OR. 7-4255. H

WOMAN to care for two small children and do light household duties 4 hours a day, 5 days a week, in small two-bedroom apartment, $.60 per hour. MRS. M. K. RICHARDS. Reply in writing to Northrop News, Box 2023. H

RENTED AUNT to share our home and care for us while mommy works second shift, small salary, please call her on Extension 2141 after 3:30 p.m. H

LOST

COAT, three-quarter length, gold color, with 7 keys and green knife on round key chain in pocket, at NRC Clubhouse Saturday night, April 24. Finder please call DON KOHLER, OS. 6-2668. J

FOUND

COAT, three-quarter length, gold color, smooth finish, one-button, two-pocket, almost new; evidently left in error at NRC Clubhouse in exchange for similar garment. Please call DON KOHLER, OS. 6-2668. K

PERSONALS

DRIVING to northeast Iowa last week of May, would like 2 or 3 passengers for points along southern route, prefer driving experience and references. MARISE COUNSELL, OS. 6-7427. L

Palmdale

(Continued from Page 1)

of the jet's 104 rocket armament.

Ample parking space for visitors has been provided adjacent to the south side of the main hangar. Construction crews are currently putting finishing touches on the huge concrete taxi-ways to be used for parking.

Ready access to Northrop's sprawling Palmdale installation is provided by traveling east on Avenue 'N' from Sierra Highway and following directional signs to the Northrop parking area.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information in activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Meet every Thursday evening, NRC Clubhouse, 7:00 p.m.

BIBLE STUDY
Al Barnes, acting commisioner
Meet daily—Plant I, Plaster Shop tent, 11:00 a.m.; Plant II, second floor, center conference rm., 12:30 p.m.; Plant III, conference room 2, 12:15.

BOAT CLUB
Elmer Chiodo, commissioner
Next meeting Monday, June 7, 7:30 p.m., NRC Clubhouse. Semi-annual Boat Club Dance at NRC Clubhouse May 22 at 7:30 p.m. Memorial Day sailing cruise to Catalina.

BOWLING (day)
Chuck Carson, commissioner

BOWLING (night)
Tony Cardoza, commissioner
'Bowling Ball'', NRC Clubhouse, May 8. Tickets available from league officers. Summer leagues now forming. Entries available PA&S, Plants 1 & III.

BRIDGE CLUB
Walt Darby, acting commissioner
Meet at NRC Clubhouse Tuesday, May 11. Play begins at 7:30 p.m.

CAMERA CLUB (day)
George Fuller, commissioner
Meet every other Friday evening NRC Clubhouse, 7:30 p.m. Next meeting May 14. Model night. Bring camera and plenty of film.

CAMERA CLUB (night)
Adam Slusarz, commissioner
Meet every other Saturday evening, NRC Clubhouse. Next meeting May 29, 7:30 p.m.

GARDEN CLUB
Bert Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm. Plant One group meets Thursday, 11:00 a.m., Conference Room T-1.

GEM AND MINERAL CLUB
Art Westermann, acting commissioner
Meet fourth Wednesday of each month at the NRC Clubhouse. Next meeting, May 26, 7:30 p.m.

GOLF CLUB (day)
Jim Milne, commissioner
Twilight leagues at Western Ave. and Alondra Park Golf Course each evening Monday through Thursday.

GUN CLUB
Dick Booth, commissioner
Meet every other Tuesday, 7:30 p.m., NRC Clubhouse. Next meeting May 11.

MIXED CHORUS
Ken Schumacher, acting commissioner
Meet every Wednesday evening, NRC Clubhouse, Fountain Room, 7:30 p.m.

MODEL RAILROAD CLUB
Gene Bogges, commissioner
Meet every Thursday evening at 4411 W. Redondo Beach Blvd., 7:30 p.m.

PHILATELIC CLUB
George Borton, commissioner
Philatelic and Numismatic combined club meets 2nd and 4th Monday each month. Next meeting May 10, NRC Clubhouse, 7:30 p.m.

PLAYERS GROUP
Roger Williams, acting commissioner
Meet every Wednesday evening, at the NRC Clubhouse Annex at 7:30 p.m.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun., May 16, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, May 13.

SALT WATER FISHING (day)
Bill Dean, acting commissioner
The first boat run will be on May 15. Boats will run May 15, June 12, July 17, Aug. 14, Sept. 4. Fishing license can be acquired at PA&S.

SALT WATER FISHING (night)
Chuck Bija, commissioner
Boats will run on May 16, June 13, July 18, August 15, and September 5. Fishing license can be acquired at PA&S.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next shoot May 15. Members interested in reloading ammunition meet at the NRC Clubhouse Monday evenings.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be May 17, NRC Clubhouse Board Room.

SOFTBALL
Tom White, commissioner
Practice sessions Rosecrans and St. Andrews playgrounds. Team entries accepted PA&S. Call Ext. 595.

SPORT CAR
Doug Hugill, commissioner
Meet second Thursday each month, NRC Clubhouse. Next meeting May 13, 7:30.

SQUARE DANCING
Fred Brant, commissioner
Meet at Swimms Barn, 15016 Daphne St., Gardena, from 7:00 to 10:00 p.m. Meets 1st, 2nd, 4th and 5th Sundays.

SURF FISHING
Ralph Schamp, commissioner
Meet NRC Clubhouse, 7:30 p.m., 1st Tuesday of month. Next meeting June 1.

TOASTMASTERS 212 (day)
Glen Jackson, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, Gardena.

TOASTMASTERS 1398 (night)
Eugene Gruber, representative
Meet every Thursday, 12:30 p.m., at Bill's Steakhouse on Crenshaw Blvd., just north of Manchester.

NRC BASKETBALL CHAMPS

TOP HOOPSTERS—. NRC Basketball plant champions for 1953-54 season are Scorpion League-5501 cagers. Decision was awarded after 2 out of 3 wins from Snark League-3350 team. Members, back row: Charles Bosses, F. J. Sullivan, J. A. R. Gauvin, G. W. Fuller, D. R. Haas, R. A. Skinner. Front row: R. C. Skinner, R. W. Parker, Tom Stinson, captain, and Don Smith. (See story in prexy's column for point of interest.)

WOODS AND IRON SPORT SESSIONS ON CLUB SKED

A "fore" cry from the ladies will be heard next May 11 when the NRC Ladies Golf season starts again.

Instructions in this increasingly popular sport will be given each Tuesday evening at the Culver City Golf course, located on the corner of Jefferson and Sepulveda Boulevards, from 7:00 until 8:00 p.m. Instructors are Jerry Kruger and Ed Wilson, golf pros.

Lessons are $1.00 per person plus 40¢ a bucket for balls. Clubs are furnished free.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Dorothy Hodgson, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BALLET CLASS
Lessons scheduled every Thursday at 8:00 p.m., NRC Clubhouse. Instruction provided at no charge.

BOWLING
Florence Rice, commissioner
''Bowling Ball'' dinner dance, May 8, NRC Clubhouse. Tickets available from all league officers. Spring Tournament and summer league entry blanks now available at PA&S, Plants I and III.

DINNER CLUB
Cathy Waffel, commissioner
Annual ''Orphans Party'' Friday, May 14, 6:00 p.m., NRC Clubhouse. Dinner tickets at PA&S, Plants I and III.

FLOWER CLUB
Rosalie Geesaman, acting commissioner
Meets second Tuesday of each month at NRC Clubhouse, 7:30 p.m. ''Give Away'' flower program on May 11.

GOLF CLUB
Series of golf lessons starting Tuesday, May 11, 7:00-8:00 p.m., Culver City Golf Course, Jefferson at Sepulveda. Lessons at $1.00 — plus $.40 per bucket of balls. Golf clubs furnished free.

SOFTBALL
Practice games May 11, 18 and 25, at Baldwin Park, 5401 Highlight Place.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Tuesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP (MARINERS)
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Peggy Barber, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 to 6:30 p.m. Baby sitting provided if necessary.

Pro Photographers Judge NRC Camera Club Entries

Shutters were silent at the April 16 meeting of the NRC Camera club while lens hounds waited for their monthly print and slide entries to be judged.

The two judges were professional photographers — James Moodie and Calvin Baker, of the B. & B. Camera store in Hawthorne.

Final results in the black and white division netted George Fuller, Engineering Test, a first and third place spot and John Ray, Missile Guidance, the second place award.

Color division winners were: T. J. Olsen, Weights Section, first and third place; and E. J. Kimling, Loft and Tooling, second place.

Honorable mention—black and white division—went to George Fuller and John Ray.

Honorable mentions—color division—were: E. J. Kimling, O. P. Carvey, John Ray, and Stan Hunter.

The black and white entries are on display in the NRC Clubhouse Annex and will remain there through May 28, according to Club comish George Fuller.

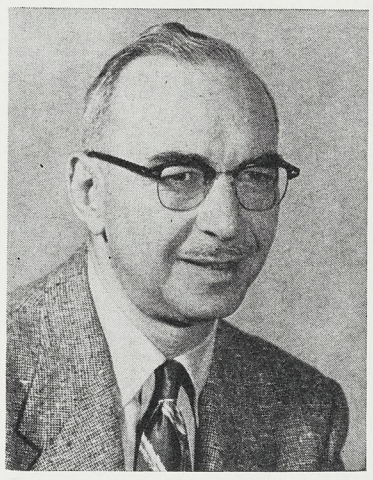
"DANIEL BOONES" BAG COTTONTAIL IN GORMAN AREA

The jack rabbit population on the Snyder Ranch near Gorman, Calif., took a decided drop on Sunday, April 25, after a visit by sharpshooting members of the NRC Gun Club.

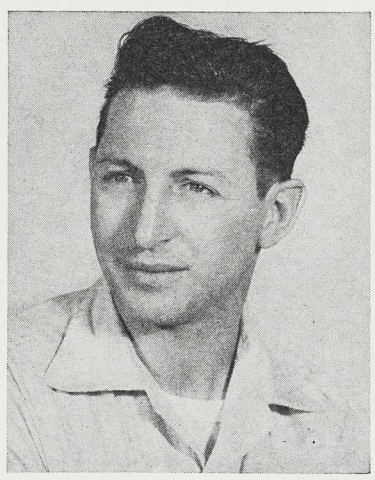
The hunters braved the predawn darkness and left Los Angeles at 5:00 a.m. returning tired but happy with bulging knapsacks around 3:00 p.m. the same day.

Club Commissioner Dick Booth invites all Norcrafters to attend the next hunt, exclaiming " . . . oil up that old gun, grab your hunting jacket, and come along!"

Shake Hands With---



NED REESE, newly elected NRC Toastmasters Club No. 1398 prexy. Ned is 10-year Norcrafter from Purchasing.



TOM WHITE, new NRC Softball commissioner, is 3-year Norcrafter from the Installation Planning department.

Sea Scouts Seek Suits, Prexy Says

by Joe Carver
President
Northrop Recreation Club

The beginning of another NRC season has rolled around and with each new season comes new officers and—we hope—additional members.

This season it is my privilege to serve you as NRC president. I believe I speak for the new council members and new officers when I say that we will do all in our power to keep up with the high standards of service and recreational habits established by all of the previous councils and officers of the NRC.

With the continued excellent support of all of you we cannot help but succeed.

In line with my duties as NRC president goes the task of giving you a president's eye-view of the NRC via the pages of the Northrop News. I hope to be aided and abetted in this rather pleasant task by my fellow NRC members, the PA&S staff, and the Northrop News folk.

So, with the backing of my fellow officers—Hal Hunsberger, vice-president; May Hawkins, secretary; Don Danner, treasurer, and Glen Jackson, sergeant-at-arms—here goes——!

★ ★ ★

I heard the other day that the NRC Sea Scouts are in need of uniforms. There must be many ex-Navy men in the company who have outgrown or worn-out uniforms and who would probably be more than happy to give them to young sea-dogs.

Frank Ziegler, Scout representative, is the man to see—or call. He may be contacted through the PA&S office, extension 2784.

★ ★ ★

Four of the boys on the plant championship team—pictured at top — are also members of the Los Angeles Mute team which recently flew to Kansas City, Mo., to compete in a national basketball tourney. The boys are Charles Bosses, G. W. Fuller (NRC top scorer), and the Skinner twins—Roger and Robert.

The boys lost out to the championship team by one point, but went on to win consolation championship title.

★ ★ ★

Leo Garcia, newly-elected president of Ontario City League Softball Association, stepped into a natural role . . . as regular commissioner of all softball at Ontario (intra-plant and city league). Leo is also actively playing team captain of the NRC club entered for battle in the city league and presently managed by recently elected, popular Mart Valadez.

THE Northrop Scene BY DAY AND NIGHT

CAPACITY THRONG AT MANAGEMENT-NRC PARTY

MANAGEMENT IS HOST—. Pictured above is part of the capacity crowd which gathered on Saturday, April 24, in the NRC Clubhouse for management-hosted party in honor of NRC officers, commissioners, and representatives. Program for the evening included reception, steak dinner (under the direction of Freddie Wolfe, Northrop Cafeteria manager) and introduction of management and key NRC personnel. Large share of credit for successful evening went to busy PA&S staff—Charlie Boyle, manager; Harry Clark, assistant manager; and Don Kohler, Clubhouse manager.

SOME OF management-NRC party guests were snapped by photographer in pre-dinner conversation. Included in group are: Mrs. Adam Slusarz, wife of NRC Camera Club comish; Edgar Schmued, vice-president, Engineering; Dave Stadler, assistant director, Industrial Relations; Mrs. Stadler; Kenneth P. Bowen, vice-president, Manufacturing; Mrs. Bowen; Roger G. McGuire, manager, Engineering Industrial Relations; and Mrs. McGuire. Bowen made brief address of welcome.

GREETINGS from management are extended by Edgar Schmued, vice-president, Engineering. Northrop Recreation Club organization and objectives were paid high compliment by Schmued. Hosts indicated enthusiastic management support of recreation program.

OFFICIAL welcome and introduction of management hosts to assembled guests were performed by John B. Clark, director, Industrial Relations. Highlight of evening was spotlight review of NRC clubs in Hawthorne, Ontario, Palmdale, Muroc, Anaheim, Florida.

TWO GOOD JOES—. Newly-elected NRC Prexy Joe Carver pins traditional "Past President, NRC" pin on outgoing president Joe Cribbs. Carver also presented Joe and Mrs. Cribbs (NRC Auxiliary chairman) with gifts from NRC members. Mr. and Mrs. Alex Morrison, 1951-52 NRC president and Auxiliary chairman, respectively, were honored by NRC members.

CONVIVIAL CONVERSATION following management-NRC steak dinner is enjoyed by, left, clockwise: Pat Carver, Joe Carver, NRC president; Kay Cribbs, Joe Cribbs, NRC junior past president; John R. Alison, vice-president, Administration; Mrs. Alison. In addition to Schmued and Bowen, Alison spoke, welcoming NRC members to party. Management members pointed out national fame of Northrop Recreation Club. After dinner dancing was order of the evening.

Northrop News

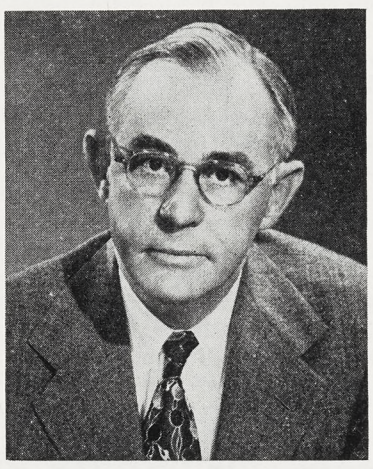
Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, May 19, 1954

Micro-fine Holes
(See Story, Page 3)

General Oliver P. Echols

Norcrafters last Sunday morning read regretfully of the death of General Oliver P. Echols, chairman of the board of Northrop Aircraft, Inc., and president and general manager of the company.

General Echols died last Saturday, May 15, in Santa Monica, after an illness of about three weeks' duration. He was 62. A military



burial is scheduled in the Arlington National Cemetery, Washington, D.C., Saturday, May 22.

General Echols joined Northrop as chairman of the board in February, 1949, after a distinguished military career.

Just before coming to Northrop, General Echols had served as president of the Aircraft Industries Association, a national organization made up of the aircraft manufacturing industry and related companies. In this capacity he fought staunchly for the further development of America's air might.

The responsibilities of general manager were added to the General's duties shortly after he came here; and in November, 1952, he was elected president following the retirement of John K. Northrop.

Of lasting tribute to General Echols in Norcrafters' eyes is the growth of the company during his tenure in office.

When he first started with the company, the personnel count stood at about 8,000. At the beginning of this month, a scant five years and three months later, the count had climbed to over 24,000.

Perhaps more significant, though coldly statistical, was the climb in backlog of contracts held by the company . . . from 70 million dollars in 1949 to an all-time high of 557 million last month.

But the General will be remembered, too, as a lifetime leading proponent of the development of aviation as a "Power for Peace" —theme of Armed Forces Day, May 15, the date he passed away.

The General began his highly respected career in the service in 1916 as a second lieutenant, and later graduated from several of the air branch's most important courses of study, including the Army War College.

He was awarded the Purple Heart during World War One, and the Distinguished Service Medal in 1942, among other decorations.

His last assignment before his retirement as Major General was as director of the Civil Affairs Division of the War Department.

NEW M5 SEATS RETRO—F-89

NOW BEING MADE AT ANAHEIM

F-89D Scorpion pilots and radar operators flying airplanes now coming off the final assembly line are seated in new, more positively foolproof, gas-actuated ejection seats.

Although eventually all F-89's are scheduled to be retro-fitted with the new Northrop-designed emergency equipment, all "D's" since 4406 have been getting the new seats as part of their original assembly.

The gas-actuated seats, manufacture of which has been transferred just recently from Hawthorne to the Anaheim Division, represent an advance over the original mechanically-operated M-1 series. Gas-actuated seats are designated Type M-5.

Possibility of the new seat's malfunctioning is reduced prac-

tically to zero, according to Norcrafters who have had to do with designing it. Furthermore, whereas the M-5's are two-sequence seats — requiring only two steps for the pilot or RO to eject himself — the old type M-1's require three sequence functioning.

Credit for the new seats goes to Norcrafters of the F-89 Equipment group working under the direction of Ed Martin. This group, as part of the F-89 Mechanical Project section, (supervisor Rod Magner) worked in close conjunction with the Cockpit Design coordination group supervised by Fred Mazy.

Greatest improvement in the gas-actuated M-5 is the reduction — in fact the near elimination — of mechanical linkages for the

(Continued on Page 3)

CD Program Study Made At Northrop

A five-man delegation of Civil Defense authorities from the cities of Los Angeles and Hawthorne visited the Northrop plants recently to survey the work accomplished by Northrop Civil Defense planners and to discuss mutual aid between Northrop and adjacent manufacturers and communities.

The visitors were tendered a luncheon at the Plant One cafeteria private dining room, after which they toured the Hawthorne facility and interviewed local volunteer first aid specialists, zone and section wardens.

The officials were Richard F. Lynch, assistant Civil Defense Director, Los Angeles, who was accompanied by the following members of his staff: Ted Ferrer,

(Continued on Page 2)

Flight Operations Moving From Ontario; Manufacturing Functions Remain

Although production flight test operations at the Ontario facility will gradually phase out this year, and move to Palmdale, the backlog of work for the empennage assembly line is scheduled to last through mid-1956, Kenneth P. Bowen, vice-president, Manufacturing, revealed Friday.

(Deliveries of Scorpions through the most recently announced contracts are scheduled through August, 1956).

Surveys are now being made by the Manufacturing division, Bowen added, to determine what work can be transferred to Ontario from elsewhere.

As a result of the move of flight operations from Ontario's International Airport, there will be a gradual reduction in personnel at the facility over the next six or seven months. But many Norcrafters will be able to transfer to other Northrop facilities, Bowen's announcement stated.

The schedule tentatively drawn up for the move of flight operations calls for all radar operations to be transferred by mid-July from Ontario, and by the end of August from Hawthorne.

Functional flight test and paint and strip operations will be moved from Ontario by the middle of November.

All available assembly area at Ontario, however, will be retained for manufacturing purposes, Bowen said, for the assembly of tail surfaces and whatever other sub-assembly operations can be moved there.

"Quality of the empennage work at Ontario has been of the highest order," Bowen added, "and every effort will be made by the Manufacturing division to provide additional work for the Norcrafters there."

Joint Palmdale-Edwards MC Meeting Hears Bowen

Kick-off dinner to inaugurate planning sessions for a joint Palmdale - Edwards Management Club was held recently at Antelope Valley Dude Ranch near Quartz Hill in the Palmdale-Lancaster area.

The well-attended affair drew guests from all Northrop facilities to hear key speaker Kenneth P. Bowen, vice-president, Manufacturing, relate in impressive detail plans for the future of both Palmdale and Edwards.

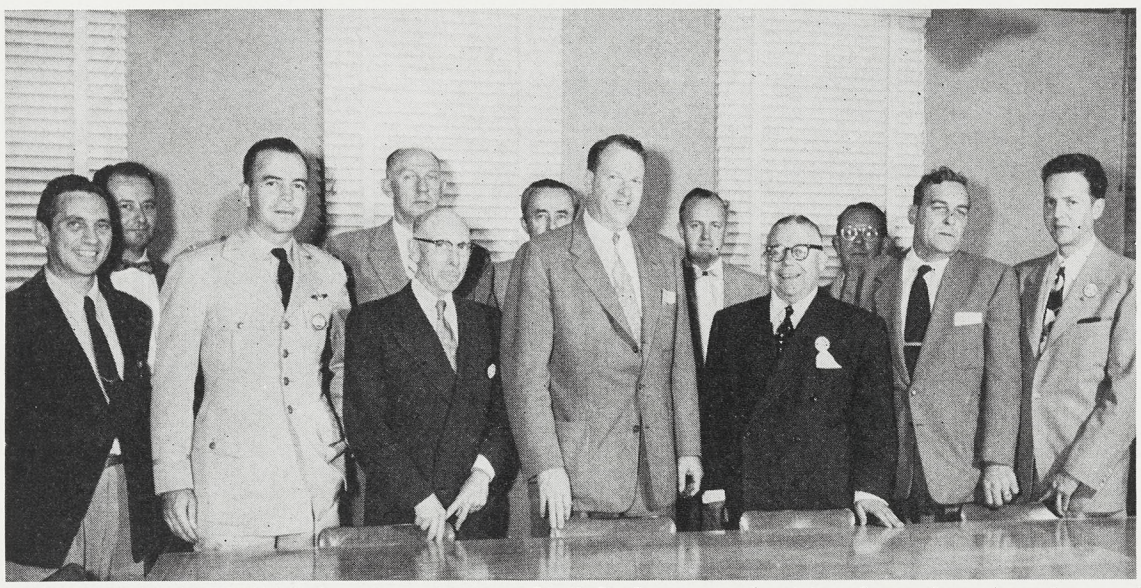
Charles Bradford, past president of the Management Club, spoke on over-all aspects of forming such an organization, and Jack Akin, recently-elected club president, also talked.

Surprise of the evening was presentation of a large framed painting to Tom McCracken, Palmdale base administrator, by Sam Orr, Edwards Photographic department.

The painting was executed by Ray Wallace, Art Service, from a color photo taken in the valley area by Sam Orr for the full-color cover of the recent Palmdale Pictorial issue of the Northrop News. It will hang in the lobby of the Palmdale facility.

FUTURE PLANS for Palmdale facility are related by Kenneth P. Bowen, vice-president, Manufacturing, at first Edwards-Palmdale Management Club meeting held recently at Antelope Valley Dude Ranch. Head table, from left: Tom McCracken, Palmdale base administrator; Jack Akin, president Northrop Management Club; Bill Renison, chairman pro-tem; Bowen; Charles Bradford, MC past president; Bob Bradford, Edwards PA&S rep. Also identified in photo, left foreground: "Chuck" Myler, Bill Monger, Palmdale.

Subject: C-D Preparations



LUNCHEON MEETING hosting visiting Civil Defense authorities from Los Angeles and Hawthorne was held recently to discuss mutual aid between Northrop and other plants or communities. Pictured in Plant One private dining room are: front row, Ted Ferrer, L.A. C-D public affairs; Lieutenant Colonel C. W. Tennant, AF plant representative; E. F. Burke, co-chairman, C-D Executive Committee; Richard F. Lynch, director, Civil Defense, Los Angeles; John B. Clark, chairman, C-D Committee; J. B. Colegrove, senior deputy, Transportation, Los Angeles; Lee Ohlinger, chief, Computer Services. Back row, Charles Barr, Public Relations; Jerry Baker, coordinator; Harry Severns, Hawthorne chief of police; K. E. Munsey, assistant Civil Defense director, City of Hawthorne; Dr. Roger Mackey, Medical department head (story begins page 1, continues below).

WELL EQUIPPED rescue truck impresses visiting Civil Defense authorities during tour of Hawthorne facilities. From left, Jerry Baker, Northrop Civil Defense coordinator; Harry Severns, Hawthorne chief of police; Richard Lynch, Los Angeles Civil Defense director; and K. E. Munsey, assistant director, Civil Defense, for the City of Hawthorne area.

C-D

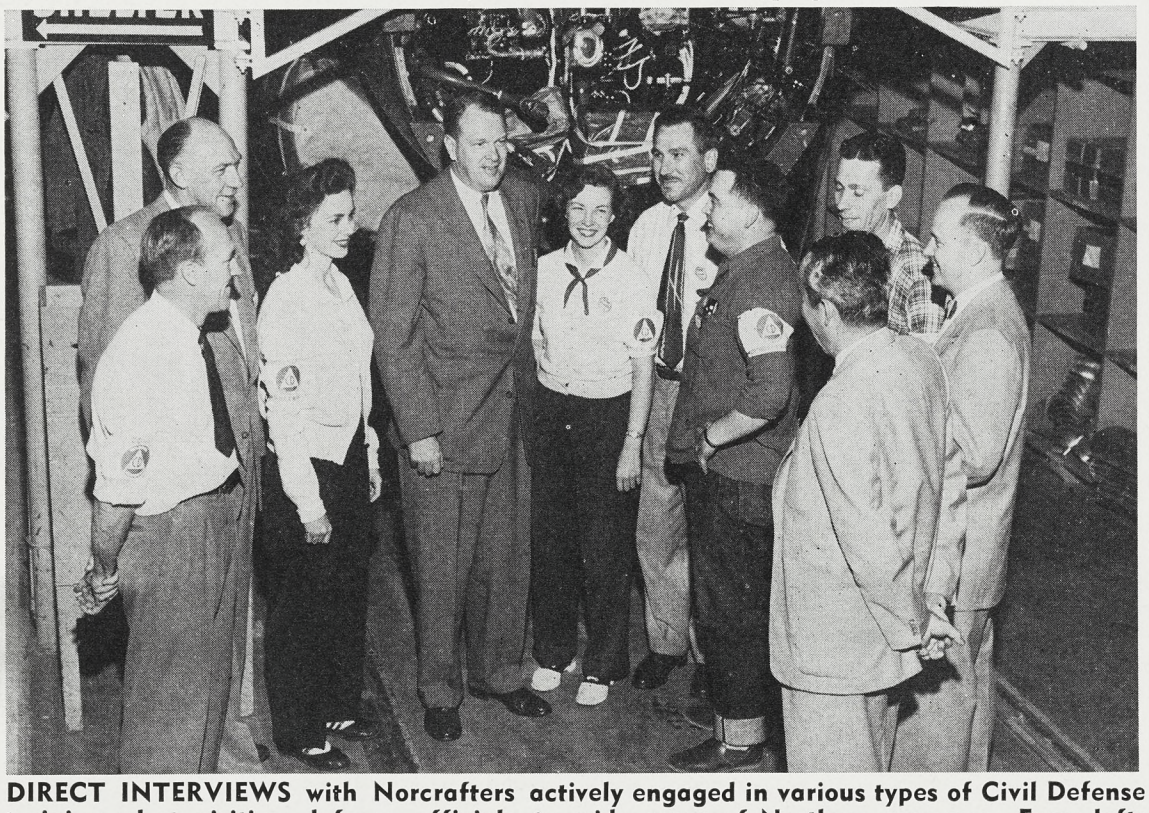
(Continued from Page 1)

public affairs official, and J. B. Colegrove, senior Transportation deputy. Hawthorne city officials were K. E. Munsey, assistant Civil Defense director, and Harry Severns, chief of police.

Lieutenant Colonel C. W. Tennant, Air Force plant representative, greeted the guests with members of the Civil Defense Executive Advisory Committee.

Direct interviews by the visitors with Norcrafters working in Civil Defense brought the following comment from Lynch: "Of all industrial plants inspected Northrop has as fine an organization as any we have seen. The outstanding feature is the progress of Northrop's continuing training program. It is well organized and will keep an alert force ready to act at all times — in case of natural disasters such as earthquake, fire, or any other calamity."

The officials were impressed by the scope of local planning and all expressed satisfaction with progress made here.



DIRECT INTERVIEWS with Norcrafters actively engaged in various types of Civil Defense training alert visiting defense officials to wide scope of Northrop program. From left: Ole Omley, 5060; Jerry Baker, coordinator; Frances Varney, 5507; Richard F. Lynch, director, Civil Defense, Los Angeles; Gwen Berrera, Andy Koren, Bill Dixon, 5586; Kenny Nelson, 5587; K. E. Munsey, assistant director, Civil Defense, Hawthorne; and Harry Severns, chief of police, Hawthorne. The officials lauded the over-all Northrop plan.

Anaheim Business Slate Shows High Versatility

The work of Northrop's Anaheim Division, nearly all of which falls into the high precision category, through recent months has been undergoing steady diversification.

In the interest of keeping the "bird's-eye" perspective of Norcrafters up to date regarding Anaheim progress, the News here lists, generally and briefly, rundown of all work currently under way at that facility.

Production

Rangefinder — opto-mechanical instrument produced for use in targeting the 90mm gun of the Patton 48 tank; *Ballistics Computer* — in conjunction with rangefinder, computes and selects rapidly for range and ammunition; *Telescope Mount* —designed to mount an Ordnance panoramic telescope, mount is built for rugged field usage; *Missile Valve*—in two series, pilot and production, this valve for a complex Ordnance missile represents for Northrop-Anaheim another opportunity to design, develop and produce precision equipment on a "package" basis.

Hawthorne Overload—precision machining of parts for both Scorpion and Special Weapons projects; *Ejection Seats* — assembly of Scorpion pilot and radar operator emergency ejection seats in their entirety, plus machine fabrication of certain parts.

Glass Grinding — already established as West Coast leader in manufacture of opto-mechanical precision instruments for defense, Anaheim now enters most fundamental phase of field to grind glass to three second. tolerances; *Incremental Motor* —a small motor, minute size of details and extreme tolerance specifications rendering production comparable to watch making.

Engineering

Rangefinder Research and Design — redesign of several phases of rangefinder with view to improving shock resistance, stability, resistance to temperature and other environmental changes, quality and producibility; *Ballistics Computer Research and Design*—comparable to preceding.

Periscopic Rangefinder—being designed for future tank fire control needs, it will be small, simple, rugged; *Engineering Services* — preparation of maintenance manuals, supply catalogs, standard inspection procedures, plus manufacture of mandatory check fixtures needed by Ordnance personnel.

MONDAY, MAY 31 MEMORIAL DAY COMMEMORATION

Norcrafters throughout the plants will observe May 31 — a Monday—as a paid holiday commemorating Memorial Day, May 30.

All hourly paid personnel not on leave of absence will receive eight hours' straight time pay for the day; part-time Norcrafters receive straight time pay based on their regular daily schedules.

Hourly-rated personnel requested to work on 31 May will receive straight time pay in addition to holiday pay.

Legion Award

AWARD—"Testimonial of Appreciation"—was recently presented to Northrop by Morningside Park American Legion Post #398. Presentation was made in recognition of Company's advanced program of hiring handicapped veterans. George McCormack, commander of post, right, makes presentation to Vice-president John R. Alison. At left, Norcrafters Oscar Hakala, Archie B. Odom watch.

Northrop News

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"Sports Night" On Slate For Next Meeting of MC

The Northrop Management Club will observe "Sports Night" at its Friday, June 4, meeting, which will be held in the Rodger Young Auditorium.

Vice-president John W. Myers will conduct the customary Question - Answer period. Members have received forms on which they can submit questions in advance.

Feature sports attraction will be a showing of the Los Angeles Rams "Highlights of 1953" film, with ex-Rams who are now Norcrafters as commentators.

Raffle prizes are in keeping with the theme of the evening's festivities, it has been announced by the Board of Control.

Baked ham or lobster is the entree scheduled for dinner, with tickets being sold by members of the ticket committee throughout the plants. The usual time schedule holds true — cocktails at 6 p.m., dinner at seven.

Seats

(Continued from Page 1)

ejection mechanism. Elimination of these mechanical linkages greatly reduces maintenance requirements and the possibility of malfunction due to faulty linkage adjustments.

Still another improved feature, safety-wise, is the automatic-disconnect seat belt. Two seconds after emergency ejection of seat with occupant into the air stream, the lap belt is automatically opened via a delay type initiator and the occupant is free to kick or fall away from the seat itself. In turn, and within a maximum of six seconds later, the rip cord is pulled automatically and the parachute deploys. Because the rip cord is attached to the seat belt, and attached in such a way that the belt cannot be manually locked initially without the rip cord being properly connected, automatic opening of parachute is guaranteed.

Structurally, the new pilot's seat differs from the new radar operator's seat in certain regards. In part, variations of design reflect the structural dictates of the different Scorpion cockpits. Position adjustment feature of the pilot's seat, however, reflects only the fact that all pilots are not built the same. Some must sit nearer the controls than others. Radar operators, on the other hand, work with 'scopes which themselves are adjustable so that seats may remain stationary.

Although M-5 seats are already in Scorpions rolling out the final assembly hangar's east door, and all F-89's will eventually be retrofitted with them, what happens in the meantime?

There is provision for that too. Northrop has prepared a special interim fix kit for Air Force installation on M-1 seats. Serving as an interim flight safety measure, these kits change the three-sequence M-1's to functionally-improved two-sequence seats.

Down . . . . . Range

Heading meetings of the AIA aircraft industry publication editors in Detroit last week was Charles Bradford, editor, Northrop News, who also attended the annual conference of the International Council of Industrial Editors, held simultaneously.

Honorary Editor's job paid off recently when Todd Fast, Public Relations, won an award for "best mimeographed publication" in Rotary International District 160-A, which boasts 28 clubs — Todd edits Hawthorne Rotary Bulletin, the prize winner.

The Pat Bryans of Anaheim Division are a family of athletes . . . Pat, an ex-coach and unofficial 9.7 second 100 yard dash man; Pat's dad Earle, who, when Pat was a fast boy, could outrun him backwards; Pat's son Gaylord, now a coach, when at Stanford was four year AAU champ and football great; and Gaylord's son Bobbie, who, at four months, is registered All-American.

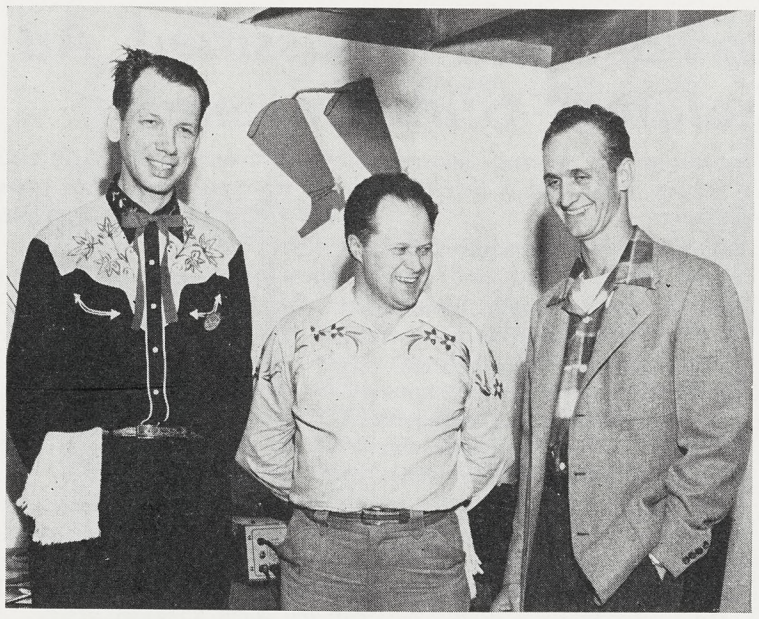
Webster Gleemen, male chorus of 19 with about half Norcrafters, recently won church talent show on television . . . were slated to sing in further competition last Sunday night in series to select top church entertainment. . . . Chorus is under direction of ex-Engineering Norcrafter Ralph Webster.

Frank J. Meyer, supervisor of engineering weight section, addressed the annual national conference of the Society of Aeronautical Weight Engineers, held in Baltimore May 10-13. . . . Meyer has been with Northrop for 14 years.

Norcrafter of Note . . . A. Paul Johnston, Tool Cribs, heads whole family of Norcrafters — including son Lionel L. Johnston, Missile Sub Assembly; daughters Nancy Fuller, Production Producibility, and Shirley Crouse, Tool Cribs; sons-in-law William Rouse, Sheet Metal Fabrication, and Ronald Crouse, Facilities and Expenditure control; and daughter-in-law Betty Johnston, Inspection.

Scorpions are fast, but Northrop pilot Bill Pruitt and RO John Wallis last week on practice rocket firing mission proved themselves no snails when they neatly severed tow cable just ahead of target . . . took pix of target as it fell . . . got permission from firing manual control tower to make another run, and then destroyed falling target.

"Square Jets" Elect



DOS-A-DOS HEAD—. Newly-elected NRC Square Dance club commissioner Fred Brant poses for photographer with, left, David Dyer, former commissioner, and, right, Hal Hunsberger, NRC vice-president. Robert Woods, NRC Camera Club, snapped pic at recent Sunday gathering of the "Square Jets" — recently chosen name for club.

Drilling of Micro-fine Holes By Tooling All In A Day's Productive Work

HOLE THROUGH HUMAN HAIR AS ILLUSTRATION

The proverbial camel, which could not pass through the eye of a needle, would have had an even more serious problem with holes presently being drilled by Norcrafters in the Tooling division.

For the past six years micro-fine holes have been drilled for various special projects by Tooling folk. First of the small holes was drilled by Marvin Griffin, now assistant foreman, Tooling Machine and Die Shop.

Proficiency in drilling the tiny holes has improved since then until holes as small as .0006 inches in diameter may be produced as a matter of everyday occurrence.

Smallest drill obtainable on the market is .002 of an inch in diameter. Tooling men then hand lap the drills, taking off a little at a time while working with a powerful microscope.

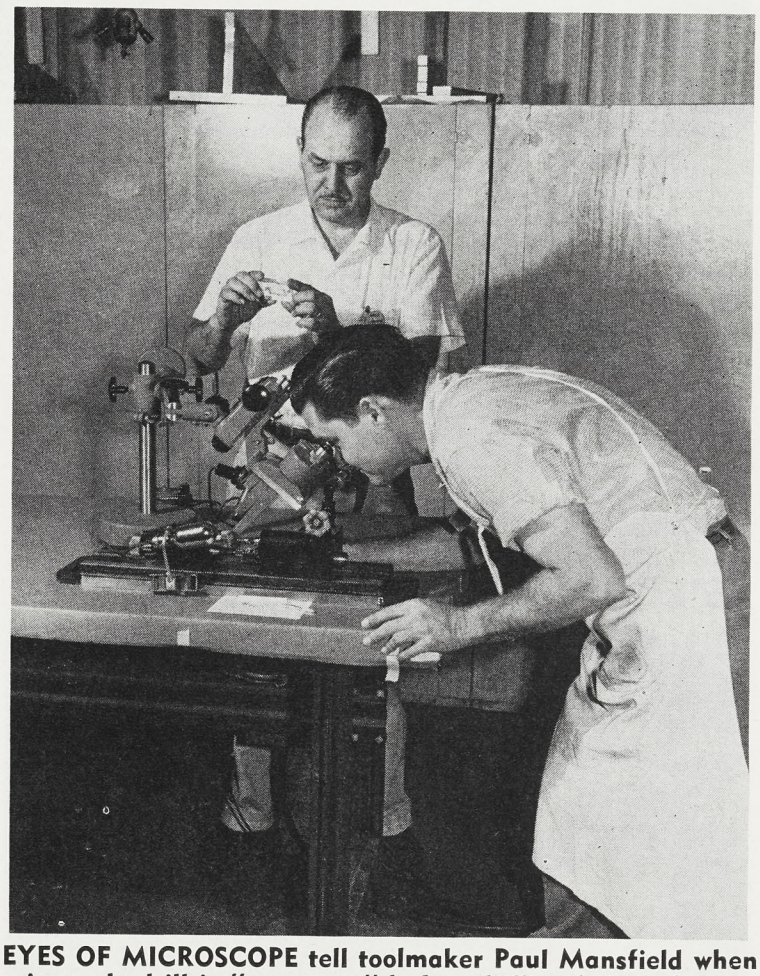
Lapping is accomplished with a motor driven hand grinder—no stationary machine could handle the work without breaking the fine shaft of the drill.

This operation and subsequent drilling call for extremely good eyesight on the part of the operator, as can be attested by Paul Mansfield, the toolmaker who recently drilled a hole .0006 inches in diameter squarely in the middle of a human hair. (See micro-photo this page.)

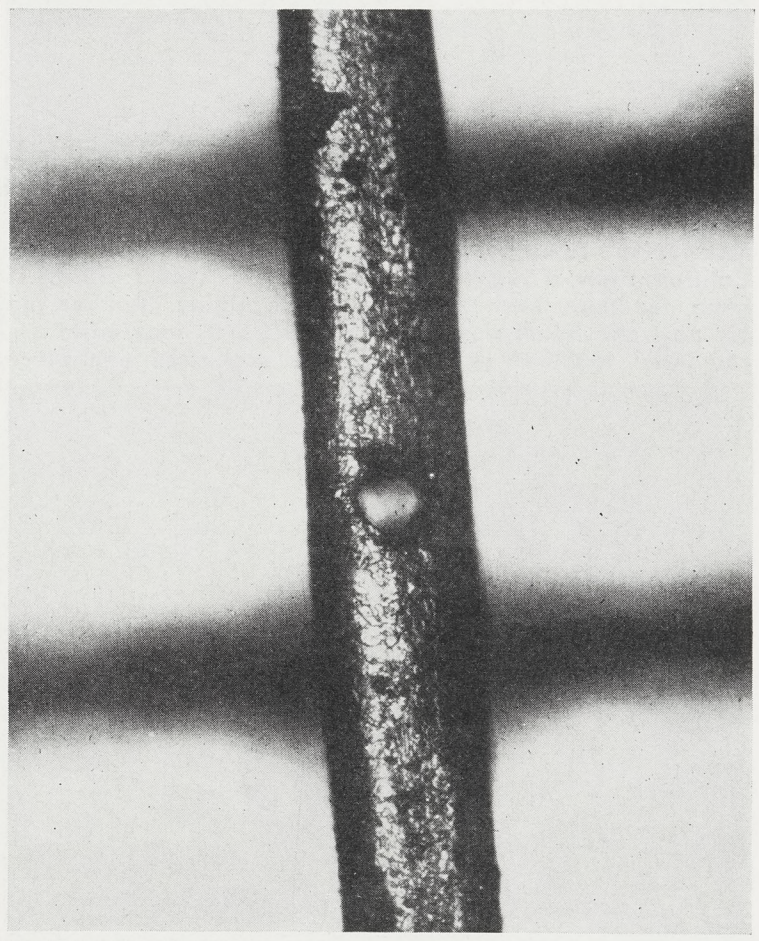
Cleaning of small holes, two and three thousandths of an inch in diameter, is accomplished by running a human hair through them—small end first. Smaller holes are cleaned with the hair of a chinchilla, which is a multi-fronded little whiskbroom which does the trick nicely.

Handling of the minuscule drills (and particularly of the hair photographed for the Northrop News) is taken in stride by the men accustomed to this fine work. The hair in question was stretched across a wire frame before drilling was accomplished —thus, making the hair easy to handle.

This work is routine, according to Tooling Norcrafters, and is not just a "stunt". The holes are drilled as an everyday production activity for special and necessary components.

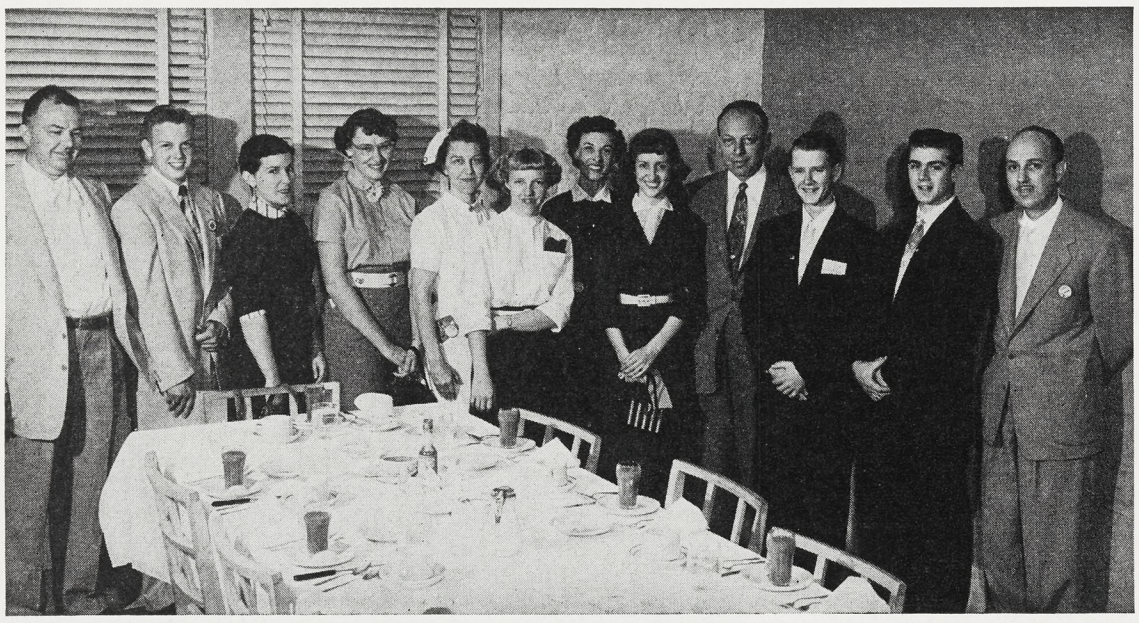


EYES OF MICROSCOPE tell toolmaker Paul Mansfield when minuscule drill is "on center" before drilling hole in human hair. Joe Chidester, leadman, Tooling Machine and Die Shop (5445), examines another micro-drilled specimen. Drilling of ultra-small holes in department is routine matter handled as casually as any other production drill job.



PRECISION ILLUSTRATION of micro-precise work being accomplished presently by Tooling Machine and Die Norcrafters is human hair with .0006 inch hole drilled laterally through center. Hole was drilled by toolmaker Paul Mansfield, days. Dark streaks across picture are graduations on hundredth scale. Hair furnished by Jo Hassan, department clerk, Tooling Machine and Die Shop.

In Charge For A Day



ANNUAL OBSERVANCE of "Centinela Day"—part of California Public Schools Week celebration—found Leuzinger High students assuming posts at Northrop for the day. They are pictured with their hosts. From left: Vern Lindquist, Safety, and Jay Moore, "chief safety engineer"; Pam Srader, Northrop News, and Roberta Sims, "editor"; Sally Granucci, Medical, and Meda Hass, "chief nurse"; Dorothy Hodgson, PA&S, and Louise Hunter, "manager, PA&S"; Max Stanley, Flight, and Charles Crawford, "chief of Flight"; Julias Gray, "factory manager", and Don G. McNeal, Manufacturing Control. Guests were feted at Cafeteria luncheon.

Spotweld Mat Con Ideas From Night Norcrafters

ALERTNESS to opportunity for material-saving won Harriet Culliton, right, a Suggestion Award. She is shown with C. H. Long, leadman; both are in Spotweld, nights. Rubber seal for part she holds was formerly applied in four parts and cemented together at corners. She suggested one piece.

ANOTHER Spotweld department (5534) Norcrafter who recently won Suggestion Award was N. E. Marks, left, who is very active in submitting suggestions. He is showing R. E. Dortch, leadman, how he eliminated spacer on flap torque tube bracket after noticing that new parts had shoulders, snap rings to hold bearings. Simple ideas often win awards.

Little Munzer

Born to Clarence "Bus" Munzer, Production Planning, and wife Yvonne—daughter Teresa Ann on 11 March 1954 . . . time, 3:15 a.m. . . . weight, 8 pounds 5 ounces . . . at Torrance Memorial hospital.

Carver Chip

Born to Joe Carver, Cost Estimating, and wife Pat—son Richard Earl on 5 May 1954 . . . time, 8:23 a.m. . . . weight, 7 pounds 9 ounces . . . at Cedars of Lebanon hospital.

Dietzel Daughter

Born to Mert Dietzel, Ontario flight dispatcher, and wife Thelma—daughter Kathleen Erin on 19 March 1954 . . . time, 11:40 a.m. . . . at San Antonio hospital, Uplands.

Master Meagher

Born to Phillip D. Meagher, Process Paint and Upholstery, and wife Nancy—son Jeffery Neil, on 16 April 1954 . . . time 12:09 p.m. . . . weight, 8 pounds 10 ounces . . . at Hawthorne hospital.

Gomes Joy

Born, 29 April 1954, to Moses Gomes, Power Plant Installation, and wife Grace, formerly Accounts Payable—first son Robert Ernest . . . time, 3:00 p.m. . . . weight, 8 pounds 10 ounces.

Mat Con Committee In Material Handling Drive

A concerted drive, spearheaded by Mat Con, is being carried on throughout the plants currently to promote improved material handling.

Primary point of the drive is to inform Norcrafters of the hundreds of ways in which they can improve material handling by pointing out that it does not only involve movement of material from place to place but also concerns handling of parts or stock while it is being worked.

A committee, consisting primarily of Mat Con divisional coordinators or their representatives, is outlining various opportunities present for top-notch handling performance.

On the committee are: E. C. Bennett, representing Quality Control; Lee B. Johnson, Industrial Relations; Francis McLarney, Internal Transportation; "Red" Stefflre, Industrial and Plant Engineering; Ray Steel, Factory; Ralph Rhein, Materiel; Jack Cooper, Maintenance; Leo Norman and Denver Swain, Conservation; John McNamara, Transportation; and Charles Speight, Factory (Producibility).

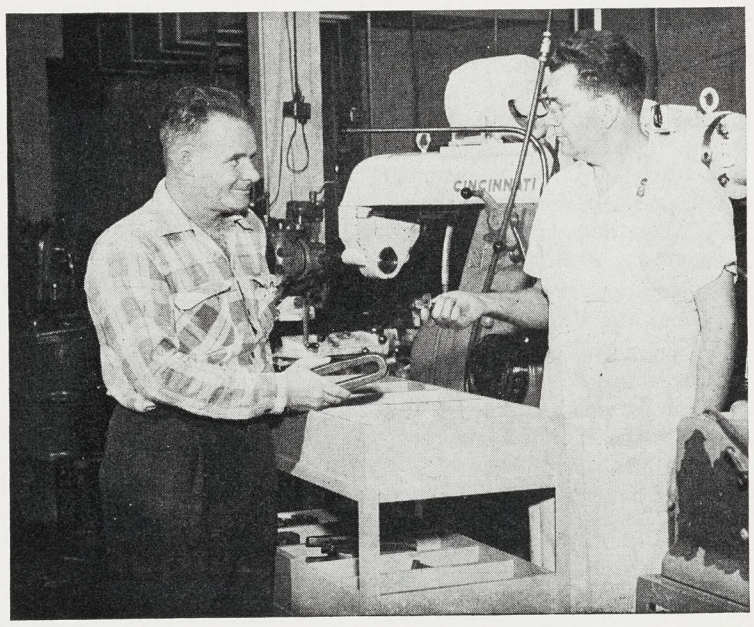
Various members of the committee have pointed out that there is a material handling cost involved each time any piece is handled. Thus, they say, great care exercised while working on material helps to diminish the material handling dollar.

Many everyday facets of aircraft industry life contribute to lower material handling costs, they add. Good housekeeping, practice of good safety habits, proper packaging, loading, and unloading—all these are involved.

Safety-Conservation Committees are preparing visual aids for distribution throughout the shops. These will show the four main factors affecting material handling; proper packaging, handling, shipping, and storage.

"Net result of better material handling by all," Jim Scott, Conservation supervisor, (who is coordinating the program) stated, "will be the goal sought by all Norcrafters, anyway — more airframe pounds per dollar for the defense program.

"Norcrafters have the opportunity to benefit themselves, as well as the material handling program," Scott said, "by turning in their helpful ideas to the Suggestion Award department."



MAT CON assist came from D. R. Blackwell, Electro-Mechanical Labs, right, with Suggestion Award-winning idea for tote cart for yokes and bolts. Assistant Foreman Lee McGrew, nights, smilingly approves. There is a place for everything, and everything in its place, Blackwell agrees, in explaining that tote cart saves time in finding parts. This is one phase of material handling (see story above).

"Cotton Picker For Sale" Classified Ad In BBSF Columns Stirs Comment

Anybody want to buy a cotton picker?

Not the small introductory size but rather the large full scale economy number has been offered in the BBSF Classified section of the Northrop News to the excited comments of News readers.

When queried, Marshall L. Smyth, Liaison Engineering, advertiser of the gigantic machine, had an interesting tale to tell of his adventures in the cotton picking business.

In 1951, Smyth was working for an aircraft company in Tucson, Arizona. He became aware of vast sums to be made in the cotton industry by properly equipped contractors.

The mechanical pickers, marvels of the mechanical world, are huge "contraptions" looking something like a cross between a lumber hoist and a threshing machine.

Forthwith Smyth acquired one of the $9000 giants and took leave of absence from his job for the season's picking.

His hopes of a financially successful year were dashed, however, when tremendous numbers of the four and one-half ton monsters appeared on the scene.

Everyone with wherewithal to purchase a cotton picker went into the business and things became "extremely competitive".

Other problems, similar to those which beset local bean threshers, were humidity, dew, and other factors which led to 24-hour work days when picking conditions were favorable.

Despite the many problems Smyth managed to do fairly well in the business and in two years picked three-fourths of a million pounds of cotton.

Since business was seasonal and the factory where he had been working had closed he stored the picker in Tucson, and while vacationing in San Jose, California, read an advertisement for engineers at Northrop in a local paper.

Now a full fledged Norcrafter Smyth states, "If anybody wants first hand information on the fine art of cotton pickin' . . . I can tell them all about it."

Also anyone wishing to purchase the machine may have it at half price ($4500 F.O.B., Tucson) as Smyth now prefers Plant One, Hawthorne, to the cotton fields of Arizona.

Louve' Mc Cabe Elected Muroc NRC Vice-Prexy

ANOTHER NORTHROP FIRST was achieved recently at Edwards facility with election of Louve McCabe to post of vice-president, NRC, at the desert base, In photo Louve, five-year Norcrafter, receives by-laws of club from Lou Baker, who has held post for the past two and one-half years.

Something new has been added to NRC affairs at Edwards facility with election of Louve McCabe, department clerk, Experimental Flight Test, to the office of vice-president of the club.

Mrs. McCabe is the first woman to be elected to this office in the history of NRC. She is a five-year Norcrafter in her own right and came to the Edwards area in 1946 with her husband Wayne, a former Norcrafter who is presently employed with the Air Force flight test center at the main Edwards establishment. They have two sons, Marc, aged eight, and Michael, five.

Louve will carry on the club activity which has been ably handled for the past two and one-half years by Lou Baker, Flight Service, and sports programs are being spurred into action at this time.

Volleyball teams are in formation with all equipment now on hand. Uniforms have been ordered for the softball team (George Fels, Flight Service, commissioner). This team will participate in the Palmdale AAU competitive league with first official game scheduled for 25 June. Practice is carried on both noontime and in the evenings.

Trophies have just been awarded for the winter '53-54 bowling tourney, with Edwards "Dead Pins" team the victors. Team members are: Roger Guilmette, Flight Service; Bob Grafton, Inspection; Chuck Stevens and Lloyd Brown, Flight Service; Chuck Berdan, Timekeeping.

Players are now being signed for an elimination ping-pong tourney to be held at Hawthorne NRC Clubhouse in mid-summer; and a pinochle tournament is in the making.

Horseshoes and chess are still mainstays in noon-time activity, while badminton is held in abeyance due to lack of hangar space.

The new vice-president is busy with plans for the Edwards annual picnic. Committees are surveying possible sites for the affair, with the picnic date to be announced soon.

Future plans will include "transient" visitors from other facilities in NRC activities wherever possible, the new "Veep" states.

"Whenever it is feasible," the new v-p added, "activities will be carried on cooperatively with the NRC organization at Palmdale, Norcrafters at both Muroc and the new facility having many interests in common."

Mat Con says

Material handling in all its various phases takes a large cut out of every production cost dollar in any industry. It is very important that we keep this fact in mind when fabricating, transporting, storing, or performing any phase of handling.

First Annual "Bowling Ball"

DISTINGUISHED VISITORS at first Annual Bowling Ball held May 8 at NRC Clubhouse were, from left: Edna Cobb, secretary of Los Angeles Women's Bowling Association; Bryan Jacobs, secretary of Los Angeles Bowling Association; Mrs. Jacobs; Ralph Cobb; Mrs. Ralph Sewell; Ralph Sewell, president, LABA. Guests awarded trophies to tourney winners. Occasion was dinner-dance ending spring season.

Spring Loop Keg Awards To Winners

Gala wind-up to the Spring bowling season was the first annual Bowling Bowl held May 8 at the NRC Clubhouse. Highlights of the event were the presentation of Spring Tournament trophies and the award of a "week-end for two in Catalina" door prize.

Wilma Dumser of Anaheim division was the lucky winner of the all-expense paid week-end.

Introduced by May Hawkins, NRC secretary, Al Bine, bowling editor of the Los Angeles Examiner, MC'd the dinner-dance program. Bine introduced several guests of honor, who presented tournament trophies to winners.

Among the guests were: Edna Cobb, secretary of the Los Angenes Women's Bowling Association; Bryan Jacobs, secretary of the Los Angeles Bowling Association; Ralph Sewell, president of the Los Angeles Bowling Association; Paul Thompson, representative of Bowling News publication; and Richard Rehers, representative from Windsor Bowl of the Brunswick - Balke - Collender company.

For a list of trophy winners—see pictures this page.

ANIMATED ATTITUDE of these bowling enthusiasts may have been caused by sight of the NRC trophy awarded Spring Bowling Tourney winners. Pictured at Bowling Ball are, from left: Paul Thompson, representative of Bowling News publication; Florence Rice, NRC Women's Bowling commissioner; Tony Cardoza, Bowling comish, nights; Al Bine, bowling editor of Los Angeles Examiner; and Chuck Carson, Bowling commissioner, days. (See story, left.)

TOPS IN TOURNEY—. Trophy holders from Spring Bowling tourney are, back row, left: John Vilarino, Ontario—men's singles and men's all-events; Nick DiRisio—team winner; Gordon Grimm—mixed doubles; Woody Woodmancy, Orville Brenner, Whitey Stenman—team winners; Roger Gard, Neal Elder—men's doubles; Bruce Nicholson, Ontario—men's high game; Rex Thornhill, not shown, was fifth team winner. Front row, left: Jo Ann Carlson, Anaheim—women's singles; Lee Hopkins—team winner; Dorothy Grimm—mixed doubles; Charlotte Bunker—team winner, women's doubles and all-events; Nora Donnici—team winner, women's doubles; Marge Howsare—women's high game; Jeanne Bostwick, Dory Guess—team winners. Trophies awarded from Northrop Recreation Club.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 1)

SUNSET & NORMANDIE, Los Angeles (27). RAYMOND M. COVERT (5585-599, Ext. 1381), NO 1-1401. 12-1

(Zone 2)

GLENARM PASADENA AVE., Pasadena. (Travel Arroyo Seco and Harbor Freeways, Figueroa, Century and Crenshaw). BARNEY ZELLMER (5518-107, Ext. 2792), PYramid 1-2452. 12-2

(Zone 3)

GARVEY BLVD. & BALDWIN PARK BLVD., Baldwin Park. (Route: Garvey Blvd., Rosemead, Manchester, Prairie). R. C. VESKINS (5524-83, Ext. 1573). 12-3

(Zone 5)

ROSECRANS BLVD. & WOODRUFF AVE., Bellflower. WALTER F. HYSON (5544-168, Ext. 2645). 12-5

(Zone 8)

CRENSHAW & 171ST. Torrance. MAX STERN (5501-331, Ext. 2200). MEnlo 4-6748. 12-8

PACIFIC HIGHWAY & WESTERN AVE., Harbor City. (Via Western Ave. or Crenshaw; will accept one rider). D. S. CAHILL (7230-55, Ext. 2201). 12-8

(Zone 10)

MANHATTAN BLVD. & 22ND ST., Hermosa Beach. JAMES SIMS (5544-171, Ext. 2645), FR 4-9082. 12-10

(Zone 12)

MAIN & BROOKS or Lincoln & Venice, Venice. RAYMOND KIEFT (5538-38, Ext. 525). 12-12

(Zone 14)

JEFFERSON & WEST BLVD., Los Angeles. THEODORE W. TAYLOR (5538-29. Ext. 525). 12-14

CRENSHAW & SANTA BARBARA, Los Angeles. (Down Crenshaw to 54th, West Blvd., Prairie). FRANK KLINE (5586-14, Ext. 483). AX 3-8963. 12-14

7:30 a.m. — 4:15 p.m.

(Zone 1)

SLAUSON & 8TH AVE., Los Angeles. R. M. AKERS (5112-32, Ext. 1475), AX 4-3433. 13-1

(Zone 6)

BUDLONG & 158TH. (Car pool desired). Gardena. JIM HAINE (3310-13, Ext. 2564). (13-6)

(Zone 12)

MONTANA AVE. & 11TH ST., Santa Monica. (Via Pico, Bundy, Centinela, Prairie and Broadway). HAROLD L. FAIRCHILD (1436-27, Ext. 1436), EX 5-0575. 13-12

(Zone 13)

CORBIN & SATICOY, Canoga Park. (Desire to join car pool). D. E. BENKERT (3310-66, Ext. 421). 13-13

BEVERLY GLEN BLVD. & SANTA MONICA. Los Angeles. TIM SEMAN (3466-123, Ext. 1671). AR 8-3990. 13-13

NATIONAL & ROBERTSON. Los Angeles. (Would like a car pool). DONALD SEGEL (3330-60, Ext. 724), VE 9-3205. 13-13

FREEMAN & ARBOR VITAE ST., Los Angeles (45). WILLIAM C. BARNUM (3360-17, Ext. 1506). 13-13

(Zone 14)

RIMPAU BLVD. & OLYMPIC or Wilshire, Los Angeles. EDWARD T. WEBB (5112-22, Ext. 1475). WYomina 5158. 13-14

LA BREA & RODEO or Santa Barbara, Los Angeles. (Will share ride or take riders). GRANVILLE L. GILMORE (5127-79, Ext. 2747), AX 1-0869. 13-14

FAIRFAX & MELROSE or Beverly, Los Angeles. (Room for 4, via La Brea). RALPH BALCHER (3230-733, Ext. 1570). WH. 6902. 13-14

SANTA MONICA & CAMDEN DR., Beverly Hills. (Route: Camden, Castle Heights, Baaby, La Cieneaa, Centinela, Prairie). JOHN M. ATKINSON (1810-22. Ext. 2675) CR 6-3534. 13-14

CRENSHAW BLVD. & RODEO ROAD, Los Angeles. (Travel Buckingham Road, Santa Rosalia, Vernon, Crenshaw, 59th St., 8th Ave., Crenshaw to plant). KAROLL SHURTZ (3120-21, Ext. 1226, 1689), AXminster 2-3692. 13-14

CRENSHAW & 60TH ST., Los Angeles (43). (Any reasonable route). PLeasant 1-1411. 13-14

3:45 p.m. — 12:15 a.m.

(Zone 3)

GARFIELD & RIGGIN. Monterey Park. FRANK MELTON (5161-243, Ext. 543), PA 8-3249. 16-3

(Zone 4)

CLARA & ATLANTIC, Bell. (Route: Atlantic, Firestone, Crenshaw). ROY E. STUHR (5501-633, Ext. 2200). 16-4

RIDES OFFERED

4:45 p.m. — 1:15 a.m.

(Zone 1)

VERMONT & 29TH ST., Los Angeles (7). WM. C. DAVIDSON (5504-404, Ext. 1434), REpublic 3-4536. 18-1

(Zone 3)

GLENDORA & GARVEY or Valley, West Covina. (Interested in car pool only, surroundina towns such as Baldwin Park, Covina, Puente, Azusa). GEORGE R. PRESLEY (5587-217, Ext. 2236). 18-3

(Zone 5)

ORANGETHORPE & WOODS, Fullerton. EUGENE J. SNELLER (5587-414, Ext. 1947), LAmbert 5-8729. 18-5

(Zone 7)

CARSON & MAIN, Torrance. MELVIN G. HOSTETLER (5504-292, Ext. 1424), FA 8-4567. 18-7

(Zone 10)

HAWTHORNE & ROSECRANS, Lawndale. (Will pick up between bordering streets). BILL NEWMAN (5587-619, Ext. 1947), OS 6-4841. 18-10

(Zone 12)

WILSHIRE BLVD. & 17TH ST., Santa Monica. URA P. HOWE (5504-255, Ext. 1424), EXbrook 5-9877. 18-12

(Zone 13)

JEFFERSON & SEPULVEDA, Culver City. (Via Sepulveda, 74th, Eucalyptus, 120th to plant). GERTRUDE SOLIE (5507-229, Ext. 526), VE 9-6069. 18-13

(Zone 14)

WESTERN & 8TH, Los Angeles (5). (Route: 8th to Crenshaw, Stocker, Freeman, Inglewood). TOM HAMMOND (5585-678, Ext. 1578), DU 4-3048. 18-14

Rides Wanted

7:00 a.m. — 3:45 p.m.

(Zone 2)

COMPTON AVE. & 33RD, Los Angeles. CHARLES A. ROBUSON (5524-55, Ext. 2209), AD 0318. 2-2

GLENARM PASADENA AVE., Pasadena. (Travel Arroyo Seco and Harbor Freeways, Figueroa, Century and Crenshaw). BARNEY ZELLMER (5518-107, Ext. 2792), PYramid 1-2452. 2-2

(Zone 3)

BROADWAY & MANCHESTER, Los Angeles. ANN E. WATSON (5508-327, Ext. 2230). 2-3

(Zone 4)

IMPERIAL HWY. & FIGUEROA ST., Los Angeles (61). CECILIA M. SULLIVAN (5503-54, Ext. 2681), PL 6-4458. 2-4

BULLIS ROAD & IMPERIAL HWY., Lynwood. JAMES J. BURACCHIO (6720-52, Ext. 2232), NE 8-6039. 2-4

(Zone 5)

FIRESTONE & ROSECRANS, Norwalk. WILLIAM G. DE GRAEVE (7310-128, Ext. 1378), TO 4-5707. 2-5

(Zone 8)

CRENSHAW & 171ST, Torrance. MAX STERN (5501-331, Ext. 2200). MEnlo 4-6748. 2-8

CRENSHAW & 171ST ST. or Prairie & 171st, Torrance. JOSEPH J. SCHMIDT (5501-130, Ext. 2200), MEnlo 4-5091. 2-8

CRENSHAW & 190TH or Prairie & 190th, Torrance. (Will join car pool). N. W. MILLER (5241-341, Ext. 1431). 2-8

(Zone 9)

REDONDO BEACH BLVD. & PRAIRIE, Torrance. F. M. PEARMAN (5241-22, Ext. 1897), ME 9-3006. 2-9

(Zone 10)

PACIFIC & MARINE or Rosecrans, Manhattan Beach. WM. R. UNFUG, JR. (5163-45. Ext. 2351). 2-10

AVIATION & MANHATTAN BEACH BLVD., Manhattan Beach. (Ride to work in morninq is most important). LARRY MOSHER (5508-302, Ext. 2230), FRontier 4-7923. 2-10

(Zone 12)

HOXEY & 96TH, Los Angeles. BEULAH M. WILSON (5151-34, Ext. 688), OR. 2-6903. (2-12)

(Zone 14)

SLAUSON & OVERHILL DRIVE, Los Angeles (43). ANATOL GERONIMI (5508-197, Ext. 520), AX 0474. 2-14

WEST BLVD. & 66TH ST., Inglewood. (Near Centinela Park). RITA CLEMENTS (4230-24, Ext. 631). 2-14

RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 1)

WASHINGTON & VERMONT, Los Angeles. (Interested in car pool). ROBERT C. MILLER (3230-566, Ext. 581 or 582). RE 4-5320. 3-1

WESTERN AVE & SANTA BARBARA. A. M. POSSEL (5152-21. Ext. 1956). AX 2-0377. 3-1

SLAUSON & 8TH AVE., Los Angeles. R. M. AKERS (5112-32, Ext. 1475), AX 4-3433. 3-1

YUKON & 108TH ST., Inglewood. RUTH M. CRAIG (1435-90, Ext. 2761), OR 8-8805. 3-1

SLAUSON & 5TH AVE., Los Angeles. R. C. JACKSON (3230-13, Ext. 2608), AX 1-0566. 3-1

(Zone 2)

HOOVER & SANTA BARBARA, Los Angeles. JANICE S. MILEWSKI (U.S.A.F., Ext. 1907-1936). PRospect 4598. 3-2

VAN NESS & HARDY, Inglewood. W. S. BOWMAN (3310-67, Ext. 462), PL. 4-9271. (3-2)

(Zone 4)

GAGE & MAYFLOWER, Bell. IRENE BOULAY (7500-11, Ext. 2623). 3-4

IMPERIAL & NORMANDIE, Los Angeles (44). IRENE McCARTHY (3140-52, Ext. 457), PL 6-6395. 3-4

(Zone 5)

VERMONT & ROSECRANS or El Seaundo. Gardena. DELORA EARLEY (1441-24, Ext. 691). ME 4-3228). 3-5

DEL AMO & PALO VERDE. Lakewood. ARLENE COFIELD (3120-814, Ext. 1238. 3-5

(Zone 6)

BUDLONG & 158TH. (Car pool desired). Gardena. JIM HAINE (3310-13, Ext. 2564). (3-6)

(Zone 7)

AVALON & SEPULVEDA, Wilmington. KAY HART (6270-23, Ext. 2502 or 2503), TErminal 4-6182. (3-7)

(Zone 8)

WESTERN & TORRANCE BLVD., Torrance. BARBARA GOODWIN (4240-17, Ext. 777), FA 8-6061. 3-8

(Zone 9)

SEPULVEDA & HAWTHORNE, Torrance. CAROL HUGHES (1441-47, Ext. 691), FRontier 5-6866. 3-9

HAWTHORNE & REDONDO BEACH BLVD., Hawthorne. RICHARD G. COOK (1436-28, Ext. 1436). 3-9

PACIFIC COAST HIGHWAY & AVENUE B, Redondo Beach. (I can arranqe transportation to meet someone in the western end of Zone 9 or 10). MERRILL E. CHAPMAN (5910-833, Ext. 1550), FR 5-5278. 3-9

(Zone 10)

MANHATTAN HEIGHTS vicinity, Manhattan Beach. (Interested in car pool). R. H. TRIMBLE (3210-76, Ext. 2011). 3-10

(Zone 11)

MAIN & GRAND AVE., El Segundo. J. G. ROTHWELL (5507-191, Ext. 526). 3-11

(Zone 12)

LA TIJERA & AIRPORT BLVD., Westchester. JO ANN KAPP (3140-764, Ext. 1839). 3-12

MONTANA AVE. & 11TH ST., Santa Monica. (Via Pico, Bundy, Centinela, Prairie and Broadway). HAROLD L. FAIRCHILD (1436-27, Ext. 1436), EX 5-0575. 3-12

(Zone 13)

CORBIN & SATICOY, Canoga Park. (Desire to join car pool). D. E. BENKERT (3310-66, Ext. 421). 3-13

BEVERLY GLEN BLVD. & SANTA MONICA. Los Angeles. TIM SEMAN (3466-123, Ext. 1671). AR 8-3990. 3-13

NATIONAL & ROBERTSON. Los Angeles. (Would like a car pool). DONALD SEGEL (3330-60, Ext. 724). VE 9-3205. 3-13

CENTINELA & LA BREA, Inglewood. EDNA BARROTT (8100-61, Ext. 2717), OR 1-1930. 3-13

FREEMAN & ARBOR VITAE ST., Los Angeles (45). WILLIAM C. BARNUM (3360-17, Ext. 1506). 3-13

PRAIRIE & IMPERIAL, Lennox. WILMA MAGEE (1441-28, Ext. 691). 3-13

FREEMAN & INDUSTRIAL or Thornburn, Inglewood. MINNIE M. LAUER (9500-17, Ext. 2254). 3-13

MANCHESTER & EUCALYPTUS, Inglewood. MARJORIE ANHALT (4220-103, Ext. 2738), OR 2-7991. 3-13

FREEMAN BLVD. & CENTINELA, Inglewood. VIRGINIA I. PERRY (3410-823, Ext. 1818), ORchard 2-5487. 3-13

(Zone 14)

RIMPAU BLVD. & OLYMPIC or Wilshire, Los Angeles. EDWARD T. WEBB (5112-22, Ext. 1475). WYomina 5158. 3-14

LA BREA & RODEO or Santa Barbara, Los Angeles. (Will share ride or take riders). GRANVILLE L. GILMORE (5127-79, Ext. 2747), AX 1-0869. 3-14

FAIRFAX & MELROSE or Beverly, Los Angeles. (Room for 4, via La Brea). RALPH BALCHER (3230-733, Ext. 1570). WH. 6902. 3-14

POINSETTIA & 2ND AVE., Los Angeles. L. ABRAMS (3530-27, Ext. 1872 or 1874), WE 1-8478. 3-14

SLAUSON & LA BREA, Los Angeles. PAT BRAMBLE (4220-107, Ext. 2260), AX 4-3884. 3-14

RIDES WANTED

7:30 a.m. — 5:15 p.m.

(Zone 9)

HAWTHORNE BLVD. & 162ND ST., Lawndale. (Prefer 7:00-4:45 shift but will take 7:30-5:15). MARIE VAIL (1810-23, Ext. 2024), FR 9-2655. 4-9

(Zone 13)

VENTURA & DIXIE CANYON, Sherman Oaks. VIRGINIA HESS (3257-303. Ext. 2002). ST 9-2292. 4-13

3:45 p.m. — 12:15 a.m.

(Zone 2)

WASHINGTON & FIGUEROA, Los Angeles. J. COFFEY (5501-430. Ext. 2200) 6-2

(Zone 3)

GARFIELD & RIGGIN, Monterey Park. FRANK MELTON (5161-243, Ext. 543), PA 8-3249. 6-3

(Zone 13)

MANCHESTER & CEDAR AVE., Inglewood. BARBARA J. COTTER (1441-211, Ext. 691), OR 7-2365. 6-13

4:45 p.m. — 1:15 a.m.

(Zone 2)

VERMONT & 73RD or Budlong & 73rd, Los Angeles. RUTH CALCOTE (5930-272, Ext. 2498), PL 2-9704. 8-2

(Zone 3)

GLENDORA & GARVEY or Valley, West Covina. (Interested in car pool only, surroundina towns such as Baldwin Park, Covina, Puente, Azusa). GEORGE R. PRESLEY (5587-217, Ext. 2236) 8-13

(Zone 4)

ORR & DAY & FLORENCE or Telearaph & Anaheim, Norwalk. ELEANOR AHERN (5507-432, Ext. 526-564). 8-4

(Zone 5)

ROSECRANS & STUDEBAKER RD., Norwalk. LOIS SEYFRIED (5352-237, Ext. 2382). TOrrev 4-7284. 8-5

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Zone 5)

EL SEGUNDO & SAN PEDRO, Los Angeles. ROGER L. HUMMEL (5584-442, Ext. 1381). 8-5

ORANGETHORPE & WOODS, Fullerton. EUGENE J. SNELLER (5587-414, Ext. 1947), LAmbert 5-8729 8-5

DOWNEY & SOUTH ST., Lakewood. JACK WEISS (5584-655, Ext. 1381), ME 0-1916. 8-5

(Zone 9)

REDONDO BEACH & HAWTHORNE, Torrance. SHIRLEY SUCAMELE (5508-417, Ext. 2780). 8-9

HAWTHORNE BLVD. & SEPULVEDA, Torrance. ELEANOR URSPRINGER (5100-215, Ext. 663). 8-9

(Zone 10)

PRAIRIE & 134TH, Hawthorne. NORMA JOHNSON (4270-217, Ext. 2784), OS 5-5752. 8-10

(Zone 12)

INGLEWOOD AVE. & IMPERIAL, Lennox. VIRGINIA GONZALES (5507-170. Ext. 526), OR 2-8828. 8-12

(Zone 14)

WOODMAN & OXNARD, Van Nuys. C. R. JAHR (5588-801, Ext. 1529). ST 1529. 8-14

12:15 a.m. — 7:15 a.m.

(Zone 13)

SATICOY & RESEDA BLVD., Reseda. BERNARD LANGLOIS (5501-877. Ext. 2200). DI 2-0436. 9-13

Miscellaneous (Split Shifts)

(Zone 9)

HAWTHORNE BLVD. & 162ND ST., Lawndale. (Prefer 7:00-4:45 shift but will take 7:30-5:15). MARIE VAIL (1810-23, 2024), FR 9-2655. 10-9

GMW Zone Map

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

HILLMAN MINX, 1953, radio, whitewall tires, wire wheels, side mirrors, hard top convertible, 6 months old, little over 6000 miles, paid $2300, will sell for approximately $1500 full price. L. O. COLEY, MEnlo 9-3330.

DUAL MANIFOLD complete, ready to install, fits '37 to '52 Chevrolet, $25. GEORGE J. PITIAK, OR 7-7404. A

DIVAN and CHAIR to match; platform ROCKER and two TABLES, all for $52. R. G. BROWN, OS 6-3058. A

WATER SOFTENER, large tank, $90; Army surplus BUNK BEDS, $7.50. R. W. KLEIN. Reply in writing to Northrop News, Box 2117.

HOUSETRAILER, sacrifice $2750 equity in 1953 model, nearly new, for only $1750, 35' long, 2-bedrooms, large living room, tub & shower, deluxe Kelvinator and Dixie range with timer. C. H. FOURNIER, MEnlo 4-8787. A

CADILLAC, 1940 Fleetwood 4-door sedan, just overhauled, good rubber, very good throughout, $250. ROBERT L. ULLERY, OS 6-8433. A

VACUUM CLEANER, General Electric upright, like new, $15; Silvertroll electric OUTBOARD MOTOR, 18 hours at slow speed, 12 hours at high, good condition, $25; large teardrop TRAILER, innerspring mattress, kitchen, ice box, storage, 6x6 extra room on side, bad weather shelter for kitchen area, $225; PHILIP E. BURKE, OS 6-5460. A

LAMP, Desert Air, large size; solid ash modern HEADBOARD, blonde; BIKE, 4-speed, near new, girl's. ROSEMARY DUMAS, OSborne 5-1566. A

DINING ROOM SET, modern, light walnut, table, 4 chairs, buffet, good condition, $125. R. H. TRIMBLE. Reply in writing to Northrop News, Box 2116. A

LOT, 155'x55', 126th and Vermont, all improvements in, oil rights, terms, $1000. CLEM ARREDONDO, TE. 5-1276. A

CONVERTIBLE TOP, like new, for '41 Plymouth, complete with framework, make offer. OR 8-1591. A

UPHOLSTERY MATERIAL, rubberized hair 3" thick; TRAVERSE RODS, various lenaths; HEAD, '39 Plymouth, new gasket and motor mounts; METAL LEGS, 2½" dia. 28" long, flanged on both ends, ideal for work bench or coop supports; dull stainless steel CUTOFFS, various sizes, reasonable. O. GRISCOTT, EX 7-8429. A

DAVENPORT and CHAIR, green and grey, modern, 1 year old, $150; 9x12 green RUG and PAD, $85; GAS RANGE, table top with griddle, $75; Kenmore automatic WASHER, $75; SEWING MACHINE, $65; odd tables, chairs, etc., reasonable. MARVEL HALL, PL 2-3896. A

WIRELESS SET, Signal Corps No. 19, Mark II, Gen. Sherman tank radio with converted power supply, 110 v., 60 cycles; transmitter, receivers, phones, mike, key intercom boxes and cable connectors, operating instructions and schematic, everything works, $50. H. W. SHERWOOD, OR 8-6879. A

STENOTYPE MACHINE, like new, used only three months, $75. RAY FASARDO, LAwrence 2-3533. A

CHEVROLET, 1941 sedan, very good condition, good tires, $125, PL 4-7610 or AX 2-5860. A

CHEVROLET, 1951 Powerglide or 1949 Chevrolet, will sell either, both in good condition, make offer. E. T. GREEN, OS 5-2370 after 4 p.m. A

LAND, Palmdale, 2½ acre lot for one-family home, reasonable, cash or terms. W. STUDEWELL. TWinoaks 5242. A

TELEVISION, 12½" table model, matching swivel table, good condition, $60. D. ADKISON. NE 5-1733. A

COTTAGE TRAILER, sleeps 4, electric refrigerator, new apartment stove, new awning, $1000, 1/3 down. ELMER PIPER, DA 6-9998. A

DOG, boxer, male, fawn with black mask, 2 years old. 3-time blue ribbon winner, 85 lbs. of beautiful dog for show or stud, dog house goes too, $175 with papers. HAROLD J. HARROD, LO 5-4500. A

HOUSE, 2 bedroom and den, fenced, GI loan, for sale by owner, Van Nuys, $14,000. JIM WATSON, DI 2-6935. A

DRY SHAVER, Schick "20" electric, like new, $15. V. C. HARDEN, OR 7-6533 till 3 p.m. A

FOR SALE

LADY'S SHOES, 3" pumps, like new, 1 pair black patent leather, $5; 1 pair genuine brown alligator, $5; 1 pair black suede, $5—all size 7AA; girl's wool COAT, size 8, excellent condition, gold color, $5. MICHAEL C. ROMANO, FRontier 2-8019. A

RIFLE, 8mm military model Mauser with Bishop stock, two boxes Remington shells, $40; CAMERA, Kodak Tourist, F4.5 lens to 1/200 second speed with Kodak Universal flash attachment, leather carrying case, some developing equipment including print box, all for $65; RIFLE, .30 caliber F.N. Mauser, completely customed, knurled bolt handle, open sights, stock fully checkered, Pachmeyer pad, new leather saddle scabbard, five boxes super X shells, $100; BILL SWINDLE. Reply in writing to Northrop News, Box 2113. A

HOUSETRAILER, 1952 40' 2-bedroom ABC, separate living room and dinette, full bath and shower, $3500. T. E. BELL. Reply in writing to Northrop News, Box 2112. A

ROASTER, Westinghouse, with stand, $18; rose frieze DAVENO and CHAIR, $15; twin coil SPRINGS and MATTRESS, $15; white table-top STOVE, $10; RUG and PAD, 18x9, $15; baby CRIB, $5. MARY BULTMAN, OSborne 6-7466. A

MOTORCYCLE, 1950 Harley Davidson, 61' OHV motor, excellent condition, my equity and payments of $31.05 per month or refinance. C. S. SHULL. Reply in writing to Northrop News, Box 2111. A

LAND, 1¼ acres, near Lancaster and Palmdale, suitable for home site and small chicken ranch, small down payment and small monthly payments. LEO W. DAY. Reply in writing to Northrop News, Box 2110. A

FORD, '49 convertible, twin pipes, new top, radio, new paint, etc., engine in tip-top condition, terms can be arranged, $795. O. T. GRAHAM. Reply in writing to Northrop News, Box 2108. A

CHRYSLER Windsor club coupe, "Highlander" interior plaid upholstery, excellent condition throughout, radio, heater and semi-automatic transmission, driven locally by lady driver, actual mileage is less than 25,000 miles, priced to sell at $1095. D. O. FROMM. EX 7-6388. A

PHOTOGRAPHIC EQUIPMENT, very good condition, very good buy for right party, reasonable. DAVID J. HADDAD, OSborne 6-9567. A

HOUSE, newly redecorated 2-bedroom stucco, on R2 lot with room for 2 more units, within walking distance of Northrop, $8500. BERT OSTERBERG, El Segundo 272 W. A

TIRES and TUBES, 5 perfect, run 15,000 miles. General 6 ply, 8:20x15, $60. A. E. CAVALLA, MEnlo 4-8586 after 4:30 p.m. A

DOG, cocker spaniel, black female, 4 months old, AKC registered from champion stock, pedigree papers free, $60. BILLY J. WEBER, L.B. 705536. A

FORD V-8 custom line, '52, 2-door, 10,400 miles, like new, radio, heater, other extras, owner overseas, price $1300, new battery and '54 license, car has been stored. H. C. DICK, OR 7-4265. A

CHEVROLET, 1954 Bel Air two-door, four months old, 3200 miles, metallic green body, ivory top, w/w tires, radio, heater and defrost, cost $2530, sell for $2030. GEO. E. BECK, PL 6-9035. A

BOOK CASE, modern, blond, oak, adjustable shelves, like new, $25. F. U. BURKE, MEnlo 9-1323 evenings. A

PLYMOUTH ENGINE, '46, disassembled, all parts and accessories complete; also '47 Plymouth TRANSMISSION, good condition, $25, takes all. R. A. METZGAR, TOrrey 7-5571. A

OLDSMOBILE, '40, 4-door sedan, automatic shift, good engine, fairly good upholstery and tires, excellent transportation, will sell for $100, can be seen any day after 3 p.m. and all day Saturday and Sunday. BILL S. RAMAY, OR 7-8892. A

SWING SET, children's teeter-totter and two swings with gym rings, $15; boy's 20" BICYCLE, needs repair, $5. BETTY HARSEY, AX 2-6844. A

MOUNTAIN CABIN, 2 miles from Lake Arrowhead, sleeps 14, fireplace, 1½ baths, all knotty pine inside, 15'x27' living room, 27' glassed and screened sleeping porch, completely furnished, $5500 cash. HELEN LEWIS. Reply in writing to Northrop News, Box 2105. A

FOR SALE

HOUSE, $495 down, 3-bedroom, 1 year old, near markets, schools, etc., ideal for family with children, large back yard, $8260. THERESE M. RUTH, NE 1-2973 after 4:15 p.m. A

HOUSE on lot 40' x 115', 2-bedroom frame, garage and storeroom; 15' TRAILER, sleeps 4, equipped, submit offer on one or both. EDNA DEVARKIN, NE 8-1413. A

DOG, toy Pomeranian male, 7 months old, orange, friendly, $25. M. J. YOHO, OR 2-7297. A

CHINA, 93 pieces, Noritake, serves 12, your choice of 2 sets direct from Japan, worth $180, only $70; STUDEBAKER, 1948 Land Cruiser 4-door, radio, climatizer, overdrive, excellent condition, make offer, about $650 full price; 35mm Argus CAMERA and leather case, $30. PL 5-6610. A

CARBURETOR, Carter 433-S, for Pontiac six, used 900 miles, half price. A. E. LILJA, OS. 5-4948. A

DODGE, 1½ ton stake truck, '43 with '50 Chrysler engine, extra tires, $225 or trade for pickup truck. F. AYREST, ME 9-3538. A

MOTORCYCLE, 1944 Indian, 45 cu. inch, good condition, tires like new, $110. JACK GAMBY. Reply in writing to Northrop News, Box 2131. A

HOUSE, 8 months old, 3-bedroom, single attached garage, garbage disposal, Dishmaster, 15 minutes from Northrop, total price $8150, down payment $800, monthly payments $67.50 F. A. BURGESS. Reply in writing to Northrop News, Box 2104. A

RADIO, Zenith Transoceanic portable, AC-DC radio, AM band and 4 bands short wave, 1949 model. C. C. FLOWERS, OS 6-3726. A

FORD, Model A coupe, $50 cash; HAROLD E. McCANN, FRontier 2-2617. A

AUTOMATIC WASHERS, good condition, $25 each; good Model A pickup truck, $65. FR 2-4474. A

KITTENS, silver persian, 7 weeks old, pedigreed and registered, kittens can be seen anytime. CLARENCE S. TAYLOR. Reply in writing to Northrop News, Box 2103. A

FORD, '48, 4-door V-8, radio and heater, excellent inside and out, above average, call PL 4-5981. A

STUDIO COUCH, can be made into twin beds, good condition, $35. WAYNE V. DENNIS, WE 8-4934. A

HOUSETRAILER, 1946 Eastern built, $750. WILLIAM A. ABLES. Reply in writing to Northrop News, Box 2101. A

LOT, 29 Palms, all utilities, heart of city, $1200. GEORGE P. EGNER, FRontier 2-8765. A

BICYCLE, girl's Schwinn, in excellent condition, has new Goodyear tires, $25; BICYCLE, boy's racer type, 26", very good condition, $20; COOLER, installs in window, very good condition. GERTRUDE SOLIE, VE 9-6069. A

OLDSMOBILE, 1949 '98' convertible, beautiful original condition, every conceivable extra, must sell, $950. H. E. KARISH, EXbrook 7-0134. A

BUICK, 1948 Roadmaster, automatic transmission, radio, heater, whitewalls, $300 cash and take over $45 monthly payments. JIM DISSINGER, ME. 4-4006. A

STAMP ALBUM and over 1000 stamps, collection not added to for 20 years, make offer; CIGARETTE CASE and lighter combination, Ronson, never used, retails for about $16, engraved initials "RR", $6. RAYMOND RABINEK, OR. 2-2494. A

HOUSE FURNISHINGS, 10 x 12 frieze RUG and PAD, bed DIVAN, platform ROCKER, console 3-band RADIO, 17" Capehart TV, BOOKCASE, 3-way floor LAMP, electric SEWING MACHINE, COFFEE TABLE, table top STOVE, DINETTE SET, WASHING MACHINE, HAMPER, Hollywood double BED, 2 chests of drawers—leaving Los Angeles—will sacrifice all for $325 or sell separately, cash or terms, J. F. DENISE. Reply in writing to Northrop News, Box 2126. A

DUAL MANIFOLD, polished Edmunds, complete except linkage, plus 2 chrome air filters, 1949 to 1952 Ford or Mercury, $35 or best offer takes it. BILL WATSON, AD. 1-2763. A

RECORD PLAYER, 3-speed portable, fine condition, good value, comes in a blue case, $15. FRANCES JONES, OS. 5-2970. A

GAS HEATER, Rheem, Model 1700, 35,000 BTU, $20; 10" tilt Arbor BENCH SAW, stand, guard, etc., like new, $165; CRIB and MATTRESS, $10; child's TABLE and CHAIRS set, $4; child's ROCKER, $2; child's WICKER CHAIR, $1; small Homart GAS HEATER, $2; 7 sheets ¾" 4x8 PLYWOOD, first grade, $52; 9 sheets ½" 4x8 PLYWOOD, $35; 26 sheets ⅛" MASONITE, 28"x50", $10; 30 sheets ⅛" MASONITE, 28"x53", $12; TARPAULIN, 12'x24', approximately $5; PLYMOUTH, 1953 Suburban station wagon, radio, heater, overdrive, tinted glass, additional extras, asking $1895. JAMES J. McMULLAN, ORchard 2-6332. A

HOUSETRAILER, 22', refrigerator, stove, sleeps four, good condition, nothing down, pay like rent. HAL BRIGGS, AX 2-5125. A

WHEELS, two 6:00 x 16, 5 hole, $3; TRAILER, 12' teardrop, good condition, $125. MARION G. WILLIAMS, OS 6-7390.

FOR SALE

CHEVROLET, '41 club coupe, good paint, good radio and rubber, $200. PAUL G. PATCHELL. Reply in writing to Northrop News, Box 2127. A

COLLECTION of modern rifles, pistols and shotguns, all like new, some never fired, for caliber, model and price details, please reply in writing to H. H. BACHRACH, Northrop News, Box 2121. A

BEAGLE PUPS, AKC registered litter, fine blood lines, wonderful pets for children, $30. L. M. LOEWY, Palmdale 569W. A

HOUSE, two bedroom and den, or 3 bedroom, one year old, completely redecorated, ready for occupancy, venetian blinds, insulation, weather stripping, lawns, landscaping, fenced yard, one block from school, 52'x120' lot, $9000 with down payment and terms to suit buyer, can be had furnished if desired. H. G. MANLEY, MA 6-2226, 8 a.m. to 6 p.m., or reply in writing to Northrop News, Box 2125. A

RADIO, portable Zenith Transoceanic, broadcast and short wave, marine model, 3 years old, excellent condition, $75. DONALD J. KATZ, Long Beach 31-2185. A

NESCO ROASTER on stand with broiler attachment, $30. L. D. ABRAMS. Reply in writing to Northrop News, Box 2118. A

OLDSMOBILE, 1953 super 88, Holiday coupe, Hydra-Matic, radio, heater, etc. A. R. HILL, FR 4-6314. A

OLDSMOBILE '50 '98' 4-door sedan, Hydra-Matic, radio, heater, directional lights, underseal, good tires, original and clean throughout, low mileage, must see to appreciate, $995. CHARLES CARRON, DUnkirk 2-9480. A

MOTOR SCOOTER, 1948 Cushman, 4 h.p. engine, good condition throughout, windshield, lights, and extra passenger seat, new tires, licensed, $55; high frequency mobile short wave CONVERTER, Gonset Triband, new model, excellent condition, tunes 10 through 75 meters, $35. ROBERT HAYOS, El Segundo 1603J. A

DODGE, 1939 4-door sedan, radio, 5 tires, '47 engine, in excellent condition, good work car, $80. ERIC SWANSSON, FAirfax 8-0692. A

FORD 1939 sedan, good transportation car, $100. ANTHONY MORETTI, NEwark 8-2334. A

WASHERS, fully automatic, in good condition, $25 each; model A pickup TRUCK, runs good, $65. FR 2-4474. A

MOTOR SCOOTER, late model Salisbury, looks and runs like new, all accessories, extra parts, recently overhauled, 1150 actual miles, perfect transportation, $200. PAUL A. ANDERSON, Ontario or Yukon 626-556. A

VACUUM CLEANER, late model Electrolux, complete with all attachments, $35; large club CHAIR, twin BEDROOM SET, blond modern, clean, good condition, best offer takes. J. F. LEE, OSborne 6-0913. A

HOUSETRAILER, factory built, 18', excellent condition, $595, THOMAS E. DAVIS. Reply in writing to Northrop News, Box 2114. A

MODEL "A", 1931 coupe, $75; Winfield HIGH-COMPRESSION HEAD for model "A", $12. KENNY LONDOT, TOrrey 4-8248. A

PLYMOUTH, '46 club coupe, new engine, perfect condition throughout. GEORGE L. PRIMM, OS. 6-5984. A

HOUSE, large family home, 3 blocks from Northrop, must sell immediately, priced for quick sale, $8500. DAVID O. PETERSEN, OS. 6-0947. A

DODGE, 1939 coupe, '46 engine, radio and heater, good tires, excellent paint, runs good, excellent transportation car. L. WAYNE TROUT, Long Beach 9-9178. A

RECORD PLAYER, Webcor 3-speed portable, "Lark" model, $15. ROY L. STAHL, VErmont 8-1802. A

SHOE SKATES, men's, roller, size 7, black, $15. JOAN KMIECIAK, OS. 6-5057. A

HUDSON, 1949 Commander four-door sedan, radio, heater, overdrive, good condition, $500. HOWARD WING, OXford 2-1531. A

HOUSE on lower side of Palos Verdes Hills, now renting to permanent renters at $80 per month, not on lease, $8950, $1200 down, 6 years old, 2-bedroom D. S. CAHILL. Reply in writing to Northrop News, Box 2119. A

STUDEBAKER Champion, 1952 deluxe, radio, overdrive, hill holder, undercoated, clean and excellent condition, 17,800 actual miles, $1050. E. L. KENNEDY, REpublic 4-5946. A

OLDSMOBILE, 1941 4-door sedan, Hydra-Matic, runs good, looks good, $150. AL LEITCH, CR 6-1708. A

PLYMOUTH, 1950 convertible, yellow, black top, radio and heater, excellent condition, almost new rubber, will accept transportation car in trade, $850. BOB UNDERWOOD, FR 5-5373. A

TELEVISION SET, 16" Magnavox table model, $50; two-piece green mohair modern LIVING ROOM SET, $30; 15" rotary shower feed CARPET SCRUBBER, $50; Robert's Junior CARPET STRETCHER with three new extensions, $50; Philco CAR RADIO, 1950 model, $35; four near new white sidewall TIRES, with three Life Guard TUBES, $80. ROBERT L. ULLERY, OS 6-8433. A

FOR SALE

TYPEWRITER, Remington, $15; Dalton ADDING MACHINE, $20; McCasky CASH REGISTER, like new, $110; LOWERING BLOCKS and complete parts for change over on Chevrolet, $3; CHEVROLET, 1940 4-door sedan, runs good, new brakes and clutch, needs body and fender work, $70. D. A. CLARKE, RI 4858. A

EXERCYCLE, $150; 2 children's STROLLERS, one $4, other $7. M. ORTH. Reply in writing to Northrop News, Box 2129. A

DRAPES, 4 pair green denim drapes with plaid heading and sides, 3 pair gray denim drapes with plaid trim, ideal for bedroom or den, $5 pair. E. A. ALLEN. Reply in writing to Northrop News, Box 2130. A

MOTORCYCLE, 1946 Indian Chief, very good condition, saddle bags, windshield, new solo seat, buddy seat, almost new tires, only 23,000 miles, $175. R. L. DAVIS. Reply in writing to Northrop News, Box 2134. A

SEWING MACHINE, Necchi zig-zag portable, 1½ years old, used very little, cost new $266.50, asking $185. MERRILL E. CHAPMAN, FRontier 5-5278. A

LOT, 60x125 in Palos Verdes Estates, near Plaza, unobstructed view, all utilities in, full price $3500, terms if desired or will discount for cash. WILLIAM ZEBROWSKI. Reply in writing to Northrop News, Box 2133. A

BUICK, 1948 convertible, new top, excellent engine, good tires, needs paint and fender work, $475. N. MAGRAUDY, FR 4-8757. A

CHEVROLET, 1936 business coupe, good transportation buy, '54 license, $75. R. SNYDER, OR 2-7530. A

DODGE, 1940 sedan, top-notch engine, excellent tires and brakes, good body, poor transmission, runs fine, $30. HAP BLINK, HOllywood 7-5843. A

FORD, 1949 2-door sedan, radio and heater, new paint, tires, engine overhauled 12,000 miles ago, new battery, $500. N. O. McCLORY, AX 3-8696 after 11 a.m. A

HOUSE, 4-bedroom stucco, large living-dining room, large kitchen with service area, total area 1390 sq. ft., tile bath, venetian blinds, fenced back yard, landscaped, thermostat-controlled furnace, Hawthorne, $11,750 with $2000 down. THOR E. LUNDGREN, OSborne 6-7427. A

BOAT, 14' Glaspar, and new 7½ h.p. Scott Atwater motor with Mastercraft trailer, $575. M. B. WALTER, FR 4-2190. A

HOUSETRAILER, 1953 Bel-Aire 27', cost new $3295, has shower, toilet, garbage disposal, 6' refrigerator, sacrifice, $2400. OS 6-1724. A

TV, 21" Admiral with planter table; 8' 1953 Philco REFRIGERATOR; BEDROOM SET; two-piece SECTIONAL; miscellaneous. C. STUBBE, OSborne 5-5242. A

BOAT, "Judy"—27'10" length, 8'10" beam, 2'6" draw, Chrysler "8" power, 2 bunks forward, Seamaster ship-to-shore, 50 gallon water tank, wash basin, bait tank, electric pump, new anchor and chain, cruise 13.8 knots, mahogany hull, surveyed March 20, 1954, 8 life preservers, boat in excellent condition, handles 8 to 10 for fishing, $2,350 cash. D. W. PHILLIPS, FR 5-2267. A

VACATION PROPERTY, 5 acres in Oregon, 350' water frontage, 10 minutes by boat to Columbia River, cash price, $1250; HOUSE, GI resale, 2 years old, 3-bedroom, patio, double garage, disposal, water softener, automatic heat, near beach, $3000 down, full price $12,500. C. G. JENKS, FRontier 5-2957. A

FORD, 1948 4-door sedan, new Mercury engine, driven less than 1000 miles, $400 cash; Horton WASHER, wringer type, 2 years old, good condition, $35. ROBERT LOMBARDO, OS 5-4965 after 6 p.m. A

NASH, 1949 "600", radio and heater, good condition, $500. WILLIAM SNYDER, TOrrey 6-4797. A

TRANSMISSION, '36 Ford, $12; RADIATOR and HOOD for '41 Lincoln, $12; complete set of HYDRAULIC BRAKES with drums for Ford or Mercury, $18; FORD, '36 3-window coupe, 53,000 original miles, new rebuilt engine with 1500 mile unit, Potvin cam, ported and relieved, light flywheel, new headers and mufflers, good tires, low Zephyr gears in transmission, must sell before June, $265. DON HEYWOOD, FR 5-6773. A

FORD, 1954 ranch wagon, V-8, overdrive, radio, heater, or new 1954 Ranch Wagon, Fordomatic, power steering, radio, heater. L. M. WACO, EX 4-1014. A

OLDSMOBILE, '39 tudor, '46 engine, radio, heater, good tires, excellent transportation, maintenance and mileage records available. E. F. McMANUS, AX 1-7507. A

BLUE JEANS, two pair $2.69, men's size 33-32, like new, one pair laundered once, both pair $3; $49 Zenith CLOCK RADIO with appliance outlet, very good condition, will sell for $27.50. WAYNE E. ROWE. Reply in writing to Northrop News, Box 2135. A

MG, 1952 MK II with radio and heater, $1390 or make offer. E. T. HAMPTON, FR 9-4653. A

(Continued on Page 8)

BBSF CLASSIFIEDS

(Continued from Page 7)

FOR SALE

HOUSE, 2-bedroom, attached garage, fenced, weatherstripped, large patio with fireplace and Bar-B-Q, near school and supervised playground, vicinity of Hawthorne Blvd. and Highway 101, $9950. CHARLES B. MARTZ, FR 5-3225. A

DINING ROOM SET, newly refinished table and either four or six chairs, table has two leaves, will seat 12 people when opened; walnut office DESK, good condition, plenty of drawer space, filing drawer, reasonable. B. T. HALEY, PL 4-7035. A

TIRES & TUBES, five 7:10x15 6 ply, B. F. Goodrich, like new, driven only 75 miles, $25 each—tire and tube. ROGER GUILMETTE, LAncaster 1433MX. A

HOUSETRAILER, 14' Crown, factory made, A-1 condition, has Trail-O-Porch which makes into an added room 5x7 with awning to enclose it, easy to assemble floor folds under trailer when traveling, sleeps five, lots of cupboard and closet space, $695 cash or terms. EVA M. THOMAS, PL 6-4743. A

TELEVISION, 7" Hallicrafter T-54, push-button, working condition, cabinet good, $19; two SPINNING WHEELS, one over 60 years old, $35; one over 100 years old, $50; old COFFEE GRINDER, like grandma used, still works fine, $20. WM. C. SECKINGER, FRontier 5-5256. A

SPORTS CAR, 1953 Super Porsche convertible, blue, all extras, top in excellent condition, runs well, good transportation, $2800—original price $4000. J. OLIVER, ME 9-1677. A

TAPE RECORDER, Wilcox-Gay Model 3A10, latest type, has everything, recording, radio, television, plug-in attachments, purchased April 1, cost $210, will sell for $150; one complete set BUNK BEDS or twin with springs and mattress, A-1 condition, $25. V. I. OSTER, REpublic 4-6827. A

CHEVROLET, 1949 2-door sedan, radio and heater, sun visor, $595; 2 D-H WINDOWS, 2'6"x4', $3 each; one 4-light SASH, 5'x4', $4. PEARL S. HARDACRE, OS 5-3423 after 4:30 p.m. A

UTILITY TRAILER, two-wheel, hitch, 16" wheels, spare, approximately 83"x46"x 28", metal floor, new paint, '54 plates, good condition, $40; MOTORETTE, 1946, 1 cylinder, 4.10 h.p., 3-wheel small car, '54 plates, new paint, 2-wheel brakes, good condition, $95. RALPH W. GUNTHER, OS 6-0413. A

FORD, $450 for equity or a good used car, for a 1953 English Ford Zephyr 6, 15,000 miles, twin pipes, Continental Kit, white walls, large chrome caps, two-tone green, 30 m.p.g., newly overhauled, take over payments of $40.45 per month. Please call TOrrey 5-5508. A

RABBIT HUTCHES, two double, $4 each; 2 single, $3 each; screened bottom and fronts, very good condition. FRANK MANSFIELD. Reply in writing to Northrop News, Box 2136. A

MANX KITTENS, from double and triple champions, pets—$35; show stock—$50; one blue stud—$75. ARNOLD STRAUB, OSborne 6-7723. A

DINING SET, 8 piece, Jacobean English heavy carved oak, original cost $1000; DAVENPORT and CHAIR, $50; STUDIO COUCH, $15; CHAIR, $10; small AQUARIUM; IRONING BOARD; automatic IRON; metal kitchen CART TABLE; china GLASSES; miniature grandfather full CHIME CLOCK; Kenmore tank type VACUUM CLEANER; DRAPES, new hand-tailored, 2 pair singles, 1 pair double, vat dyed preshrunk, antique satin fully lined, look like new. L. E. PUGSLEY, FRontier 5-2097. A

NASH Rambler Country Club, 1953 with 11,000 miles, overdrive, radio, heater, clock, turn indicator, perfect condition, $500 for equity and take over 14 payments at $74.25 per month, or refinance balance. PAUL W. WARREN, OR 2-2343. A

WANTED TO BUY

MODEL T roadster body, 1923 to 1927, CHARLES SANDEN. OS 6-8097. B

TV, 12½" to 14" table model, in good condition, JACK WILEN, ORchard 7-2867. B

USED WATER PIPE, one to two inch, fittings, valves, etc., water storage tank, plumbing fixtures, shower base, call OS 6-5253 week days only. B

LOT, somewhere in southern area, price must be reasonable, desire terms, C. H. FOURNIER. Reply in writing to Northrop News, Box 2109. B

LAWN MOWER, rubber tires and in working order. HARRY KLINE, PL. 1-3281. B

ELECTRIC SEWING MACHINE, reasonably priced, used, R. A. REED. Reply in writing to Northrop News, Box 2122. B

TYPEWRITER, portable, Royal or Underwood preferred, in good condition. LUCILLE MASON, OSborne 6-1943. B

GLASS SHOWCASE, used, approximately 8' long, 3' high, 2 or 3' deep; used SEWING MACHINE, prefer a Singer, Adler, or Pfaff. S. S. HOPWOOD, EXbrook 3-5052 after 6 p.m. B

WANTED TO BUY

BICYCLE, 24" boy's. W. W. KELLY, PL 4-9637. B

AUTOMOBILE, 1948 to 1950, must be in good condition, prefer automatic drive. M. LANZA. Reply in writing to Northrop News, Box 2137. B

FOR TRADE

SEWING MACHINE. portable, like new, or Kenmore automatic WASHER, trade for good practice piano or typewriter or bunk beds. PL. 2-3896. C

CHEVROLET, '35 jalopy. running nicely, or 14' Rob Roy CANOE, need power mower. E. HALL, El Segundo 473 W. C

JOHNSON OUTBOARD, value around $100, will trade for tools, lumber, pipe, photo equipment, guns, stamps, automatic washing machine, deep freeze, refrigerator. TUCKER, WE. 3-2663. C

VARIOUS ITEMS, 3.5 h.p. Scott-Atwater outboard motor, trailer size butane tank and regulator, Meisner P.A. system, lightweight bicycle, plate glass doors and windows, tools—need water pipe, fittings, storage tank, shower base, toilet, electric range, etc. Call OS. 6-5253, week days only. C

KAISER, 1948 4-door sedan, good running condition, trade for small boat and trailer or motorcycle. PAUL SERAFIN, OR. 2-7328. C

FOR SALE OR TRADE

WASHING MACHINE, Easy Spindryer, will trade for woodworking tools, small radio, recent encyclopedias, 6:70 x 15 tires, etc. R. E. ANDREWS, EX. 8-8619. M

TELEVISION SET, 16" Packard-Bell table model, $70, or will trade for two speed tape recorder. GEORGE P. EGNER, FRontier 2-8765. M

HOUSE TRAILER, factory built masonite, 23' length, electric brake control included, sleeps 4, will trade for home shop power equipment or shopsmith, or will sell for $325 cash. R. E. WAITE. Reply in writing to Northrop News, Box 2124. M

FORD, 1930 Model A, wringer type WASHING MACHINE, set of 4 GOLF IRONS, make cash offer or trade for what have you? DON NORTH, OR 7-3222. M

CAMERA, 35mm, Kine Exacta II, G-E PR-I light meter, gadget bag, filters, sunshade, etc., plus Testrite 2¼ x 3¾ enlarger, double-condenser model, and complete set of darkroom accessories and bulk film loader, $275 value, sell for $150 or trade for good outboard motor. DONALD J. KATZ, Long Beach 31-2185. M

PLYMOUTH, 1939, rebuilt engine with 20,000 miles, turning lights, overhauled front end, new shocks, battery and generator, good rubber, new inner tubes, good paint, radio, 15" wheels, $100 or will trade for washer, ironer, electric appliances or what have you. E. M. MOODY, WE 1-3359. M

STUDEBAKER, 1951 V-8, automatic transmission, radio and heater, clean, low mileage, will sell for $1025, you can assume $325 at $10 per week note here at Northrop if you prefer; might take transportation car in trade. JOSEPH REED, DAvenport 6-5558. M

LAND, will trade five level acres on corner in Lancaster for local income property, or will sell, free and clear. DIXIE CAMPBELL, MEnlo 4-6424 after 4:30 p.m. M

PACKARD, 1946, clean, good tires, $175; 1939 BUICK, all or any part of, make offer. ANDREW McGRAW, TOrrey 7-5968. M

OLDSMOBILE, "88" convertible, w/w, radio and heater, clean, $1295, or will consider trade on '52 or '53 Ford Ranch Wagon, $1295. WAYNE A. WALKER, PL 4-4386. A

RENTALS OFFERED

APARTMENT, large, almost new, two-bedroom, disposal and individual garage, beautifully decorated, venetian blinds, convenient location, near Imperial and Crenshaw, Imperial Village shopping center. A. F. JOHNSON, MEnlo 9-4166. E

HOUSE, one-bedroom, no children or pets, near Prairie. FRANK K. GORDON. Reply in writing to Northrop News, Box 2107. E

APARTMENT, large two-bedroom, ocean view, 2 blocks to beach, stores, school, garage, enclosed yard, $90. B. GAIENNIE, FRontier 4-7426. E

ROOM, private entrance, ten minutes from Northrop, board if desired, bus line nearby. RICHARD E. HOLDEN. Reply in writing to Northrop News, Box 2102. E

RENTALS OFFERED

HOUSE, 2-bedroom, one year old, 2 blocks off Western Ave. at 179th St., $79 month. R. L. BARNES, MEnlo 4-5469. E

HOUSE and garage, four rooms furnished, one-half block from Western Ave., $75 month; also furnished ROOM. RICHARD S. HOWARTH, TW. 8403. E

ROOM with other young gentleman, private, separate entrance, laundry done, pleasant atmosphere, 3 blocks from Northrop, $30 per month. KENNETH BARR, OS. 6-7482. E

APARTMENT, one-bedroom, unfurnished except for Servel refrigerator, garage, $66.50 per month. D. F. KURZENSKI, OSborne 5-1477. E

APARTMENTS, furnished, new, large deluxe 1 and 2 bedrooms. OS 5-4847. E

APARTMENTS, 2 one-bedroom, children o.k., no fee, $60. ALVIN L. BURGETT, PL. 2-9632. E

APARTMENT, moving to Palmdale, must sub-lease nice one-bedroom apartment, 1½ miles from Northrop, ½ block from Hollywood Park track, unfurnished, $65. LOUISE A. HILL, OR. 2-2314. E

HOUSE, 2-bedroom, garage, new landscaping, North Redondo Beach area, venetian blinds and weatherstripping, fenced yard, R. F. WIGGINS. Reply in writing to Northrop News, Box 2123. E

ROOM, gentlemen preferred, $7 per week. R. J. VASELEW, PLeasant 2-1152. E

APARTMENT, double, front, new, 1-bedroom, garage, garbage disposal, shower bath, no pets, near Crenshaw and Exposition, $75. S. OKADA, RE 2-9259. E

APARTMENT, a quiet front 1-bedroom, garage, very clean and furnished in new modern, plenty closet and cupboard space, garbage disposal, no children or pets, 5 minutes to Northrop. G. H. STOCKWELL, OR 2-2555. E

APARTMENT, one-bedroom, with stove and refrigerator, garage, will be vacant May 22, $67.50. D. F. KURZENSKI, OSborne 5-1477. E

SINGLE APARTMENT, with garage, clean, adults, no pets, center Manhattan Beach, $67.50 on lease. B. W. PRITZKAT, FR 5-5838. E

RENTALS WANTED

HOUSE, with yard, unfurnished one or two-bedroom. KATHY BENT, OSborne 5-6096. F

HOUSE or apartment, one or two-bedroom, unfurnished, by July 1, $60 per month. MARDELL LINK, OR 1-4897 before 3:30 p.m. F

HOUSE, 2-bedroom, furnished, about June 1 or 15, good reference from present landlord, from $65 to $75 per month, THEODORE H. TAYLOR. Reply in writing to Northrop News, Box 2120. F

APARTMENT or house, 2-bedroom, unfurnished, $75 or less, beginning July 1, 2 adults, 1 child (11 months). LEO J. DEBS. Reply in writing to Northrop News, Box 2128. F

All Linksmen Invited To "Beat Ben Hogan" June 5

Golfers attention — ! All Norcrafter golfers are invited to beat Ben Hogan and win medals attesting to this fact. Here's how.

On June 5, National Golf Day, "Bantam Ben" will play in competition in New Jersey. His score on that day will be registered and golfers all over America will be invited to submit score cards which will top or match that of the 1953 "triple crown" champ.

This contest in honor of National Golf Day is co-sponsored by the PGA, the USGA and LIFE magazine.

All golfers who beat Ben Hogan will receive bronze medals inscribed "I beat Ben Hogan" from LIFE magazine—those with tie scores will receive special certificates.

In addition, all Norcrafter golfers will receive trophies from the NRC with appropriate inscriptions should they beat the champ. In case of tie scores, the NRC will award recognition certificates.

Rules, appropriate score cards, and details may be obtained from PA&S, Plants One and Three, all Twilight League captains, any member of the Handicap Committee, NRC Golf commissioners from all facilities, and PA&S representatives.

AT YOUR CREDIT UNION

AUTOMOBILE LOANS are again in effect. Norcrafters with at least three years of continuous service can finance new car purchases, or re-finance older ones, re-paying by the easy payroll deduction method.

RENTALS WANTED

ROOM AND BOARD for mother and two children, also care of children during day. Contact JO ROTH, Ext. 2010. F

HOUSETRAILER, small, 18 days commencing June 18. RAY BOARMAN, OR 8-6087. F

HOUSE, 3 to 5 rooms, furnished, have 2 children, both school age, also pets, $55 including utilities. WILLIAM R. WHITE. Reply in writing to Northrop News, Box 2132. F

CHILD CARE OFFERED

CHILD CARE, Sunrise Day Nursery, licensed, ages 2 to 10 years, days and second shift, fenced play yard, play room in house, hot lunches, snacks and naps, close to all aircraft, open early, register for school vacation. For further information call OSborne 6-1786 or OSborne 6-6566. G

CHILD CARE, desire small child to care for days or swing shift, nice fenced yard. J. J. DELATERRE, OSborne 6-3076.

CHILD CARE for children over 4, fenced yard, swings, good care. MRS. BETTY ZACK, OS 6-8945. G

CHILD CARE WANTED

CHILD CARE—I work first shift and am interested in finding girl on second shift to live with and exchange baby sitting. Contact JO ROTH, Ext. 2010. H

LOST

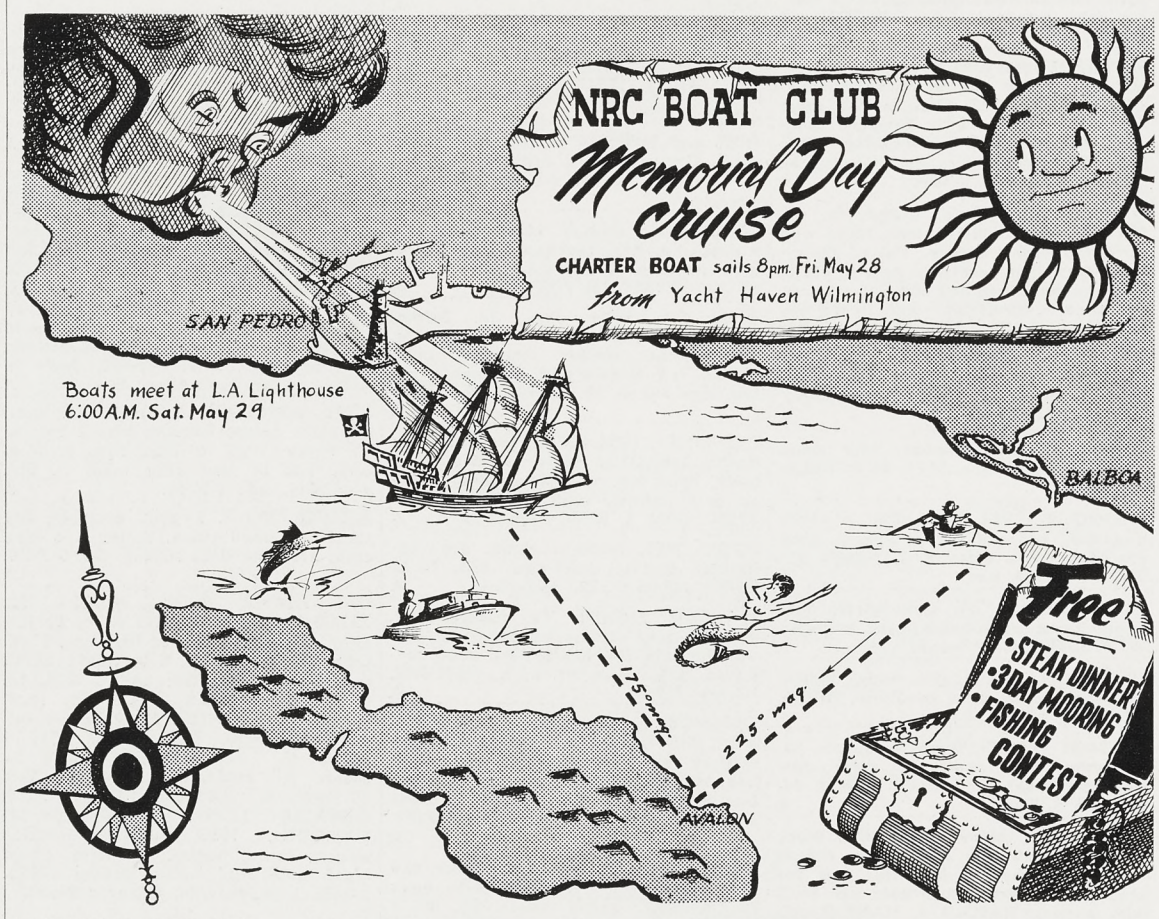
PEARL NECKLACE, two-strand, probably lost on Crenshaw Blvd. between 120th St. and Plant 3, or in Plant 3 area, reward. VIRGINIA SWANSON, OR. 2-8307. J

PERSONALS

RIDER WANTED going east on vacation, share driving and expenses, new car, leaving May 29 for Wichita, Kansas, and vicinity, GENE H. DYCK. Reply in writing to Northrop News, Box 2115. L

RIDERS WANTED, Portland via San Francisco, coast route, leave May 29, return week-end June 15, late model sedan, share expense. Telephone LAmbert 5-1521 (Fullerton). L

Memorial Day Call to Sailors



NOW HEAR THIS—. The above "treasure" map will lead all NRC salts to three days of free mooring, a steak dinner, fishing contests, and a beach luau on the NRC Boat Club's Memorial Day cruise to Catalina. Reservations for the schooner and registration for boats are still being taken at PA&S, Plant One, extension 2784. Comish Elmer Chiodo extends a special welcome to small boat owners. Note map for sailing times and compass reading.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information in activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BIBLE STUDY
Al Barnes, commissioner
Meet daily—Plant I, East Mezzanine Conference Room, 11:00 a.m.; Plant II., second floor, center conference room, 12:30 p.m.; Plant III, Conference room 2, 12:15 p.m.

BOAT CLUB
Elmer Chiodo, commissioner
Next meeting Monday, June 7, 7:30 p.m., NRC Clubhouse. Semi-annual Boat Club Dance at NRC Clubhouse May 22 at 7:30 p.m. Memorial Day sailing cruise to Catalina.

BOWLING (day)
BOWLING (night)
Tony Cardozo, commissioner
Summer leagues now in progress, both clubs.

BRIDGE CLUB
Walt Darby, acting commissioner
Meet every other Tuesday at NRC Clubhouse. Next meeting Tuesday, May 25. Play begins 7:30 p.m.

CAMERA CLUB (day)
George Fuller, commissioner
Meet every other Friday evening NRC Clubhouse, 7:30 p.m. Next meeting May 28. Print and slide competition.

CAMERA CLUB (night)
Adam Slusarz, commissioner
Meet every other Saturday evening, NRC Clubhouse. Next meeting May 29, 7:30 p.m.

GARDEN CLUB
Burt Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm.

GEM AND MINERAL CLUB
Art Westerman, acting commissioner
Meet fourth Wednesday of each month at the NRC Clubhouse. Next meeting, May 26, 7:30 p.m.

GOLF CLUB (day)
Jim Milne, commissioner
Twilight leagues at Western Ave. and Alondra Park Golf Course each evening Monday through Thursday.

GUN CLUB
Dick Booth, commissioner
Meet every other Tuesday, 7:30 p.m., NRC Clubhouse. Next meeting May 25.

PHILATELIC CLUB
George Borton, commissioner
Philatelic and Numismatic combined club meets 2nd and 4th Monday each month. Next meeting May 24, NRC Clubhouse, 7:30 p.m.

PLAYERS CLUB
Rodger Williams, acting commissioner
Meet every Wednesday evening at the NRC Clubhouse Annex at 7:30 p.m.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun., May 30, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, May 27.

SALT WATER FISHING (day)
Bill Dean, commissioner
Boats will be run June 12, July 17, Aug. 14, Sept. 4. Fishing license can be acquired at PA&S.

SALT WATER FISHING (night)
Chuck Bija, commissioner
Boats will run June 13, July 18, August 15, and September 5. Fishing license can be acquired at PA&S.

SKEET CUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next shoot May 29. Members interested in reloading ammunition meet at the NRC Clubhouse, Monday evenings.

SKIN DIVING
Eldon Burgess, commissioner
Next meeting will be June 21, NRC Clubhouse Board Room.

SOFTBALL (day)
Tom White, commissioner
League play under way Monday, Tuesday & Thursday, Rosecrans Playground; Wednesday and Friday, St. Andrews Playground. Games begin: 6:00, 7:30, and 9:00 p.m.

SOFTBALL (night)
Paul Crowley, commissioner
League play in progress daily, Rosecrans Playground. 10:30 a.m. Monday and Tuesday at Sportsman Park (Western at Century). All games—10:30 a.m.

SPORT CAR
Doug Hugill, commissioner
Meet second Thursday each month, NRC Clubhouse. Next meeting June 10, 7:30.

SQUARE DANCING
Fred Brant, commissioner
Meet at Swimms Barn, 15016 Daphne St., Gardena, from 7:00 to 10:00 p.m. Meets 1st, 2nd, 4th and 5th Sundays.

SURF FISHING
Ralph Schamp, commissioner
Meet NRC Clubhouse, 7:30 p.m., 1st Tuesday of month. Next meeting June 1.

TOASTMASTERS 212 (day)
Ernie Boren, representative
Meet every Thurs. eve., 6:30 p.m., Western Club, Gardena.

TOASTMASTERS 1398 (night)
Ned Reese, representative
Meet every Thursday, 12:30 p.m., at Bill's Steakhouse on Crenshaw Blvd., just north of Manchester.

TROPICAL FISH CLUB
Orval Coley, commissioner
Meet fourth Tuesday of month, NRC Clubhouse. Next meeting May 25, 7:30 p.m.

G & M PLANS CALICO TRIP

PROSPECTORS, ROCKHOUNDS INVITED

Ghost towns, silver, petrified palms, and opals are some of the attractions offered rock hounds and prospectors on the next NRC Gem and Mineral Club field trip.

The trip — to be held May 21 through 23 — will be to the famous Calico Mountain area. Old Calico — a completely reconstructed ghost town — is located about 9 miles from Barstow.

There are old mines to be explored by the prospectors, excellent collecting material for the rock hounds, and the family will enjoy historical Old Calico, says Art Westermann, Club comish.

Next at-home meeting of the club will be held May 25, at which time Berl Martin, club member, will show colored slides of good prospecting areas and of scenes along the Bloody Trail on the Devil's Highway — plus a lost gold mine. Martin will also display specimens in all stages — raw, cut and polished, and set in jewelry.

Two other club members, George Hartman and Henry Arnold, will bring portions of their collections for display.

Special note to the night shift — all after-dark Norcrafters who wish to take part in the field trips and club activities are heartily invited by Comish Westermann. Special meetings and programs are now being planned for this group's convenience.

Norcrafters Win Sierra Rally Trophy

The NRC Sport Car Club's third annual Sierra Rally, held May 1-2, brought sports car enthusiasts from as far as San Diego, but top trophy came home to the hosts in the hands of Lou Perry and Tom Tripp (both of Production Engineering).

Team trophy went to the Compton Five Cylinder Club of America. Bill Frankum and Paula White of the NRC Sport Car Club took the "dead last" award.

Next event planned — a gymkhana—will be held on May 23 in the old Northrop Institute parking lot. Trials will start at 10:30 a.m., and continue until finished with only a 30-minute lunch break intervening at noon.

The gymkhana is a series of timed driving skill contests; all Norcrafter drivers — with all types of cars — are invited. Details are available at PA&S, extension 2784.

WARFARE BEGINS IN NIGHT SHIFT SOFTBALL LOOP

Opening games of the NRC-sponsored after-dark Inter departmental Softball League were played on May 10 at Rosecrans and Sportsman Park playgrounds, with Department 5360 beating Department 5373, 6 to 4, in a hard fought battle; and Department 5437 downing Department 7220 by a score of 16 to 0 at the Sportsman Park diamond.

Games start at 10:30 a.m. daily, Monday through Friday, at the Rosecrans Playground and at the same time Monday and Tuesday at Sportsman Park (Western and Century).

FIRST LADY—Most glamorous male team in the NRC Softball league this year will be Department 5518 team Number Two. The all-men team will be managed by Marty Leonard, pictured at left, surrounded by, left: Francis McLarney, umpire-in-chief; Tom White, Softball comish, days; and Paul Wheeler, umpire. Boys say Marty really knows her baseball. League play started May 17 at Rosecrans Playground, with games on Mondays, Tuesdays, Thursdays, 6 p.m.; St. Andrews Playground on Wednesdays and Fridays.

MANAGER LINE-UP—. First manager's meeting for the 1954 NRC Softball League counted the following team heads. Standing, left to right: Doug Gordon, Team 9340; Julian Reed, Team 5530; H. E. Hendrickson, Team 5509; John Bloom, Team 5620; Ellsworth Hardy, Team 3440; Fred Briscoe, scorekeeper; Tom White, Softball comish; Paul Wheeler, umpire; Francis McLarney, umpire-in-chief; Joe Martin, Maple Street Warehouse team; Antonio Madrigal, Team 3410; Lester Eisele, Team 3410; Joe Willis, Team 5518, No. 1; Don Lowe, Team 5518, No. 2; B. L. Clark, Team 7310; R. L. Brown, Team 7310. Kneeling, left to right: Don Razor, Team 3350; Herman Warren, Team 5544; Robert Prosco, Team 5620; Euel Mills, Team 5501; Ken Klier, Team 3460; Donald Hatfield, Team 5517; Bert Swearinger, Team 3230, No. 1; Mike Daley, Team 5515; Jerry Simonek, Team 5530; Jack Gibilisco, Team 5200; Marty Leonard, Team 5518, No. 2; R. E. Shaw, Team 7310. Games will be played at 6:00, 7:30, 9:00 p.m. All are welcome.

Day, Night Surf Angler Joint Meet

The first combined monthly field meet of the NRC Surf Fishing Clubs — day shift and night shift—is to be held at Doheny State Park on May 22 from 12:00 noon to 5:00 p.m.

The meet initiates a year long contest for the plant Surf Fishing trophy offered by the NRC. The two clubs will compete each month for possession of the trophy with the club chalking up the most number of months in possession to receive permanent claim at the end of the year.

The trophy will be given for the club having the heaviest catch of edible surf fish at each combined field meet.

All registered members of either Surf Fishing Club are eligible to join in the competition so Boyd Hyatt, night shift Surf Fishing Club comish, and Ralph Schamp, first-shift Surf Fishing Club comish, invite all interested fishermen to contact PA&S, Plant I and III, for registration blanks.

Families and friends are also welcome. As Commissioner Schamp says, "Surf fishing is fun —for all."

(Ed. note—The article by Joe Carver, NRC president, which customarily occupies this column, does not appear this issue, Prexy Joe having been more than usually busy preparing a homecoming for his new son—see Stork Club, page 4).

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Dorothy Hodgson, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BALLET CLASS
Lessons scheduled every Thursday at 8:00 p.m., NRC Clubhouse. Instruction provided at no charge.

BOWLING
League now in progress at Hawthorne Bowl, Tuesday, 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Monthly dinner meetings.

FLOWER CLUB
Rosalie Geesaman, acting commissioner
Meet second Tuesday of each month, NRC Clubhouse, 7:30 p.m. Next meeting June 8.

GOLF CLUB
Golf lessons now in progress every Tuesday, 7:00-8:00 p.m., Culver City Golf Course, Jefferson at Sepulveda. Lessons are $1.00 plus $.40 for bucket of balls. Golf clubs furnished at no charge.

INTERIOR DECORATION
Meet each Thursday, NRC Clubhouse, 7:30 p.m. Instruction provided.

SOFTBALL
Donna Avazian, commissioner
Practice games now in progress at Baldwin Park, 5401 Highlight Place, 7:30 to 9:00 p.m.

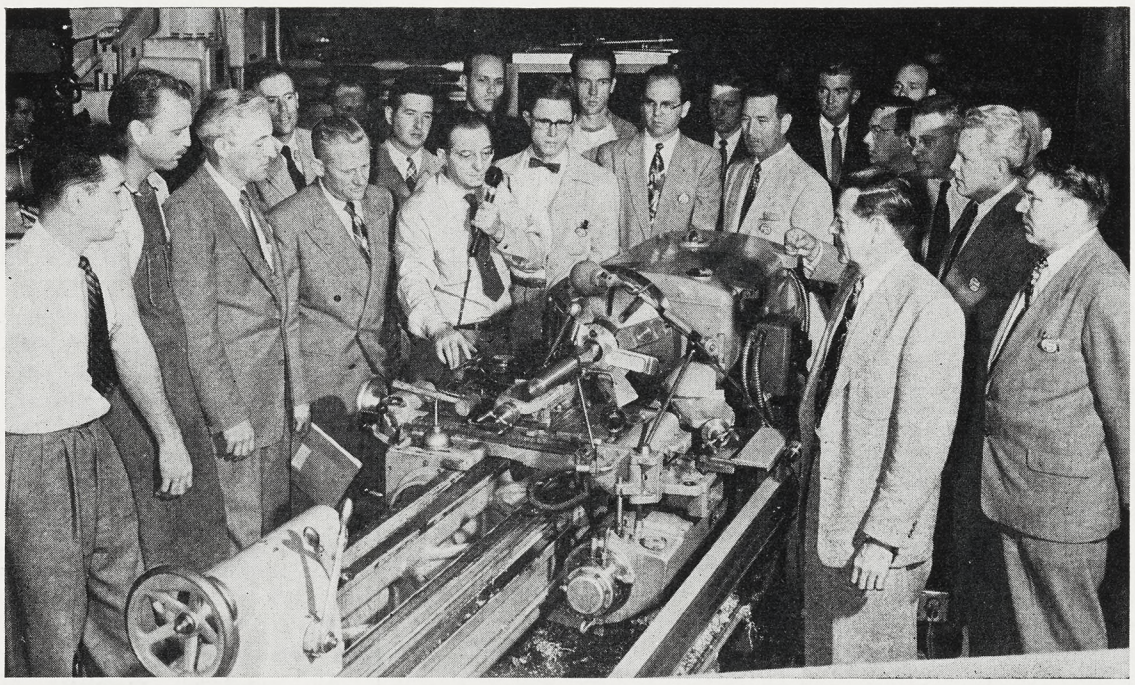
KNITTING CLUB
Nina Shannon, acting commissioner
Meet Tuesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP (MARINERS)
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Peggy Barber, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 to 6:30 p.m. Baby sitting provided if necessary.

THE Northrop Scene BY DAY AND NIGHT

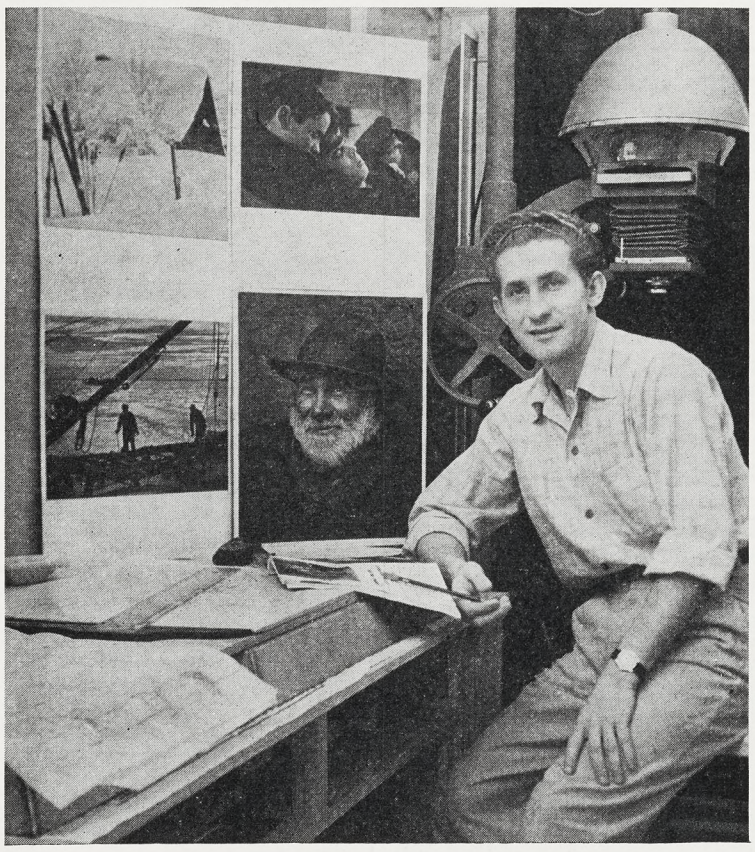
Engineers in Machine Shop



ENGINEERING GROUP participating in shop familiarization course views fine points of German-made Schaerer copy lathe. From left: A. M. Werner, 3410; W. L. Lewis, 5501; J. B. Frazelle, 5503; J. R. McKinlay, 3230; W. F. Wagner, 3410; C. L. Besser, 5501; C. A. Strayer, 3510; (at mike) John Peck, 5501; R. S. Siewert, 3250; R. B. Withers, 3350; W. N. Jones, 3530; R. E. Gagon, 3230; P. R. Field, 3530; G. B. Lendy, 3250; W. L. Barnum, 4220; J. I. Cornelius, 3410; M. G. Gordon, 3480; F. S. Briscoe, 4220; L. B. Clayton, 3430; G. L. Devendorf, 3410; P. L. Booth, 3430. Recently acquired machine automatically reproduces contour shapes from a master plate to extremely low tolerances in Plant One Machine Shop. Tour continued to other parts of the plant.

Scratch One Target

REMNANTS ONLY remain of tow target after "grand slam" punch of Northrop F-8D is delivered. Test pilot Sherman "Bill" Pruitt, jr., second from left, and Flight Test engineer John Wallis hold remains of target. Also pictured are Captain Emerson Blair, Edwards AFB project officer, and Neal Lehman, Hughes Aircraft technical representative. Odd-shaped gadget in foreground is radar reflection device. (See also "Down Range" item, page 3, this issue, for details.)



Honors For Home Plant

ALTHOUGH Anaheim Division topped Hawthorne in second annual competition between Camera Clubs, Adam Slusarz, commissioner of Hawthorne night shift Camera Club, swept honors in black and white classification, taking first and third, plus first and second honorable mentions. The yearly meet was held on April 30 at the Anaheim NRC Clubhouse. Anaheim lensmen took color awards, with Haruo Ichikawa winning top spot.

Electronics Training

RADAR CLASS, recently completed part of Ontario training, was instructed by Lowell Eason, Industrial Training, standing. Class Norcrafters, left to right from front—Vern Utter, Herman Garter, Wes Matthews. Second row; Pete Leibert, Chuck Gibbons, Dick Curron. Third: Ted Watt, Clark Virene, Paul Tisor. Fourth: Walley Lewis, Garth Bayer, Kermit Milling. Last: Glen Ellis, Gene Gaylor, Dick Ingham. Class is one of many at the outlying facility.

AUTOPILOT CLASS—. One of many classes of Ontario Flight facility's dynamic training program currently underway is that on the critical E-11 autopilot which ties in with radar on Scorpion. Here, listening to Industrial Training Instructor Ralph Hiett, jr., out of pic, are, left to right from back row—Chuck Medicus, Bill Shires, Claud Taggart, Bronson Bayliss, Richard Nagel, George Dominique. Second row—Marv Jones, John Haggard, Ed Alvarado, Al Conklin and Dwight Moore. Front row autopilot Norcrafters are Leonard Greer, Robert Dixon, Alfred Schulz, Ray Holley, "Mackie" MacKay, Stanley Snider. Not shown—Andy Anderson. Electronics studies assume increasing importance.

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California — Wednesday, June 2, 1954

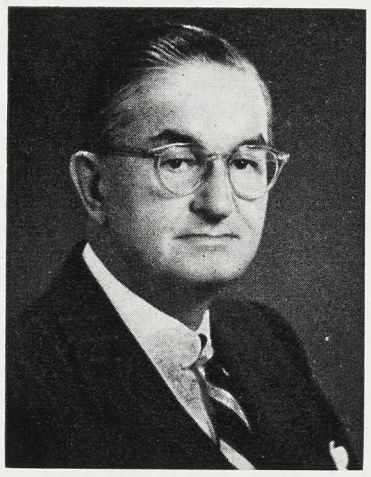
Twinkling of an Eye
(See Feature, Pages 4-5)

WHITLEY COLLINS CHIEF EXECUTIVE

AIRCRAFT INDUSTRY PIONEER

Whitley C. Collins, prominent aircraft executive and member of the Northrop Aircraft board of directors, was elected president and chief executive officer of Northrop last month, succeeding the late General Oliver P. Echols.

Selection of Collins was made at a meeting of the board held in Hawthorne on Monday, May 17.



WHITLEY C. COLLINS

Collins continues as president of Radioplane Company, a wholly-owned subsidiary of Northrop and the nation's principal producer of target airplanes for the armed services.

In addition to his position at Radioplane, Collins retains his partnership in Collins-Powell Company, Beverly Hills, and his board chairmanship of Holga Metal Products Company, Van Nuys, manufacturers of steel filing cabinets.

The new president is a native of Iowa (born in Des Moines) and served overseas with the U.S. Army, 125th Field Artillery, during World War One. He holds a BS degree from Wharton School of Banking and Finance, University of Pennsylvania, where he graduated in 1921.

For the next eight years he was associated with the Continental Illinois National Bank and Trust Company, Chicago.

Collins has been vice-president and a director of the Elastic Stopnut Corporation, Union, New Jersey (1940-46), and a director of Menasco Manufacturing Company (1941-1951).

His interest in aircraft reaches back to the days of the Lockheed Vega; in 1929-30 he was with Lockheed Aircraft as vice-president and general manager.

Collins flew with many of the history-making pilots of those days, including the famed Roscoe Turner, with whom he once experienced a thrilling forced landing in the great timber areas of Oregon.

In Defense of Industry

FORMATION FLIGHT of eleven F-89 airplanes soars over St. Paul-Minneapolis, Minnesota, area in demonstration of manner in which 18th Fighter Interceptor Squadron, a unit of the Air Defense Command, 31st Air Division, protects approaches to major industrial centers in mid-west area. These airplanes are based at Wold-Chamberlain Field, Minneapolis. Formations like these are a growing part of the Central Air Defense Force plans to protect all areas of the United States against invaders. Scorpions are stationed to guard number of vital points, including Alaska. (Photograph is by Minneapolis Star.)

MARK COMPANY'S BIRTHDAY WITH JULY 10 OPEN HOUSE

HAWTHORNE PLANT HOST TO PUBLIC

Plans were being formulated late last week for a giant "Open House" celebration at the Hawthorne facility on Saturday, July 10.

The open house will commemorate Northrop Aircraft's fifteenth anniversary.

Heading the committee which is making arrangements are Co-chairmen Al Cline, director, Public Relations, and John B. Clark, director, Industrial Relations.

Working with the chairmen are a number of Norcrafters, including: Pat O'Malley and Chuck Graylis, Air Force; P. S. Scott, Electro-Mechanical Lab; E. E. Bates, Quality Control; D. C. Stadler, Industrial Relations; and George B. Forbes, Finance.

Frank Hollister, Manufacturing; E. J. Baum, Industrial Relations; G. E. Musk and E. R. Petoskey, Industrial and Plant Engineering.

F. W. Lloyd, Manufacturing; Jack Hebard, Materiel; Harry Clark, Personnel Activities and Services; Hal Chanslor, Anaheim; F. W. Priest, Engineering; Charles Bradford, Northrop News.

Russ Bowditch, Military Relations; J. J. Gorman, Cost and Budget; Dick Carroll, Palmdale plants.

In accordance with custom, cocktail hour will begin at six; dinner will be served at seven.

(See pictures, page 10)

Forces Day, May 15. On that occasion Norcrafters, their families, and friends had the opportunity to view at first-hand a modern aircraft assembly line; the F-89D airplane; dummy rockets like those the "Grand Slam" Scorpion carries as armament; and the operation of the airplane's control surfaces.

There were also a number of other displays, including showing of one of Radioplane Company's products; Safety-Conservation displays; and exhibit of modern flight gear. Norcrafters stood by to offer informative comment.

Most all divisions of the company, including outlying facilities, will be represented in displays.

A great many civic officials and other community leaders from Hawthorne and surrounding cities—including Los Angeles city and county officials—are expected to attend.

A commemorative issue of the Northrop News, suitable as a souvenir of the occasion, will be issued to visitors on July 10.

Helping Hand to Orphans

CHRISTMAS IN MAY—. Pictured above are part of the seventy little orphan girls feted at the Women's Dinner Club orphans' party held recently in the NRC Clubhouse. Awarding prizes in the beanbag throw booth are, left, Joan Ward and Dorothy Shull of PA&S office. Girls came from Los Angeles Orphans' Home Society, Baptist Children's Home and Episcopal Home for Children. Box lunch picnic party for orphans included maypole dance entertainment by NRC Brownie troop, and favors, prizes, and games for children. Vivian Mead and Jean Arleo of Women's Dinner Club chairmanned event.

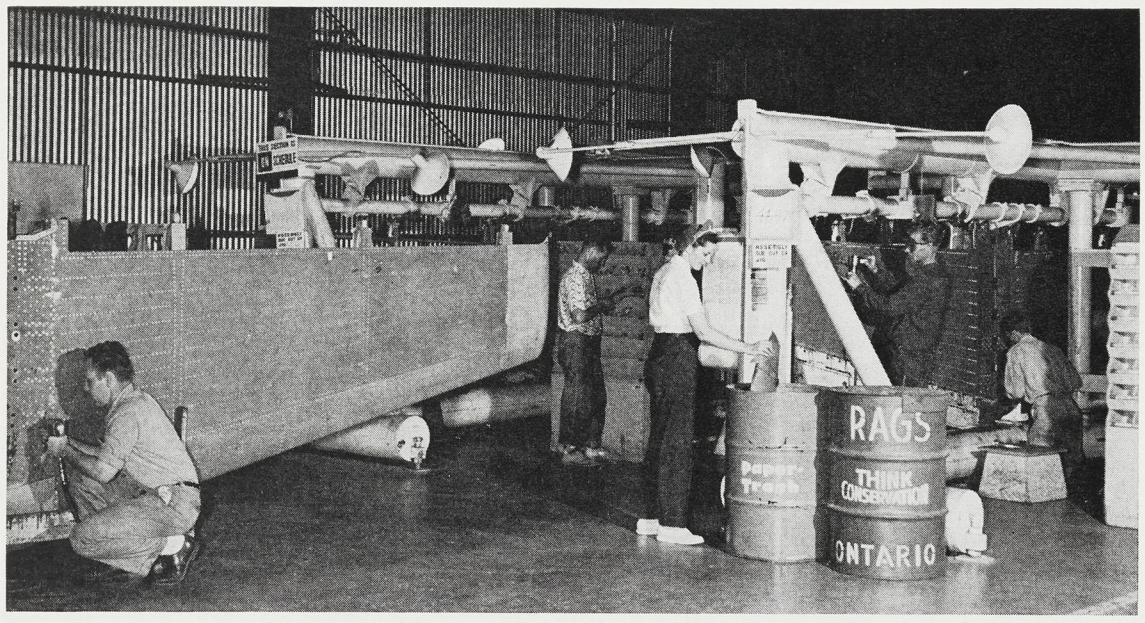
M C Holding Sport Night Next Friday

When Management Club members meet Friday night at the Rodger Young Auditorium, 936 West Washington, they will find a program of sports-vacation highlights, according to Jim Thomson, publicity chairman of the organization.

The customary Question-Answer session will be handled by Vice-president John Myers, Thomson has announced. Newest Management Club member, Northrop President Whitley C. Collins, has indicated plans to attend, and will be introduced from the speaker's table.

A movie feature of the evening's schedule of activities is the showing of the Los Angeles Rams' "Highlights of 1953". In addition—and in keeping with the theme, "Sports Night"—a football autographed by all Rams will be the raffle prize. (A number of Rams are expected to be present).

A special menu offers either lobster or ham. Tickets are now available from members of Ticket Chairman Elise Williams' committee, stationed throughout the



MANY are the good housekeeping scenes of late at Ontario, where Norcrafters like these in Empennage Assembly are keeping their areas in sparkling shape via systematic cleaning three and four times per shift. From left—Howard Stewart, Chuck Hentzell, Martha Porterfield, Zane Perkins and Ed Edwards, all working on the horizontal stabilizer of the empennage assembly. State of floor shows that containers, foreground, are being used.

Ontario Efforts in Good Housekeeping Reflect Increased Mat Con Interest

Pulse of Ontario facility's safety-conservation program has been quickening of late. Norcrafters of that base have heightened their cooperative efforts. Progress along these lines was reflected in the discussion among Ontario department heads held May 11, according to Bob Snider, base Mat Con coordinator.

May 11 was occasion of the monthly meeting of the Safety-Conservation General Committee, policy-steering body comprising Ontario department heads concerned with safety-conservation matters and who work closely with all-important shop and office committeemen.

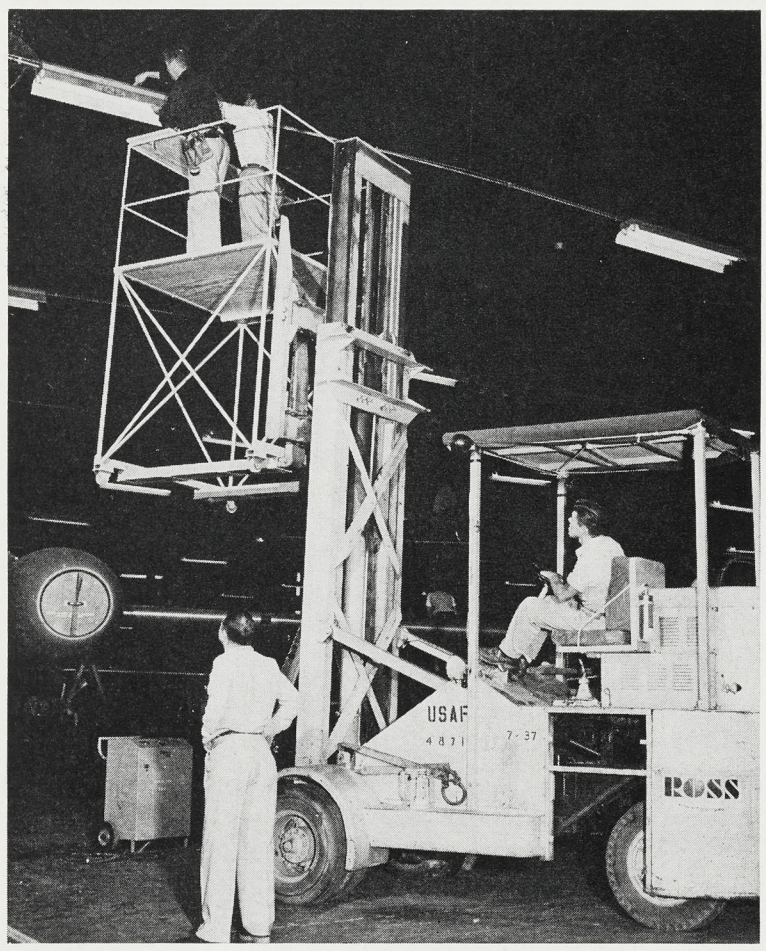
Ernie Lawson, Ontario base administrator and committee chairman, in opening the meeting, highlighted the better housekeeping evidenced throughout the facility (see pic and caption above).

On hand as special guests to the meet were—from Safety Engineering—Lee Johnson, chief engineer; and Ken Selvidge, Safety Engineering Norcrafter assigned to Ontario . . . and Ray Wenger, Material Conservation general supervisor.

Ontario's Safety-Conservation General Committee comprises, besides chairman Lawson—Chaney Bruce, Manufacturing Control; Lou Casale, Liaison Engineering; Vern Garrison, Paint & Strip; Jeanne Haines, Hospital; Lou Holmes, Business Administration; John Landreth, Fire department; Chester MacMasters, Radio-Radar; Ted Mueller, Facility Maintenance; Denny Pointon, Inspection; Charles Wigmore, Methods Engineering; P. W. Parker, Plant Security; Capt. F. O. Johnson, Plant Protection; Ed Rhoades, Assembly; Eldon Richards, Flight Service; Arthur Ross, Production Engineering; Frank Schroeder, Flight Service; Robert Snider, Industrial Relations; and Lee Wilson, Manufacturing Control.

Committee meets second Tuesday of each month.

No Sooner Said...



RECENT Northrop News cartoon ("Did Louie go back to the office?"—see issue of May 5, 1954) had nothing on this scene which Northrop Photo Lab photog Bill Sterr found when assigned to photograph Ontario Industrial Engineering's elevated extension safety platform for fork lift. Platform is safe aid to many types of higher-altitude ground-plant work. Operating lift is Morris Frantz; on platform from left are Rod Starkey and Walt Boult; standing is Ted Mueller, supervisor. Wilbur McBratney, days, and Leon "Shorty" Blanchard, nights, are welders who built device. Ted reports his boys are imaginative, create many such innovations.

Norcrafters To Beat Ben On Golf Day

This is the week—!

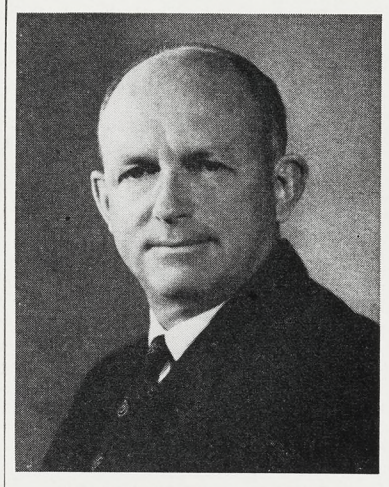
As announced in the Northrop News issue of May 19, 1954, now is the time for all golfers to compete against championship golfer Ben Hogan.

The contest, sponsored by PGA, USGA, and LIFE magazine, is in honor of National Golf Day and all golfers submitting scores as good as, or better than, the one Hogan chalks up on June 5 in New Jersey will receive certificates and medals. In addition, NRC offers trophies to all Norcrafters who beat the champ.

Rules, score cards, and details may be obtained through PA&S, Plants One and Three, all Twilight League captains, all members of the Handicap committee, NRC Golf commissioners—all facilities, and PA&S representatives.

Robert R. Miller Named Assistant to the President

Robert R. Miller, who has been serving on the staff of Vice-president John W. Myers, was assigned on May 18 to the office of President Whitley C. Collins as administrative assistant to the president.



ROBERT R. MILLER

A Norcrafter since 1951, Miller had been with Republic Aviation Corporation as assistant to the president, and he has been executive vice-president and a director of Menasco Manufacturing Company.

A native Californian (born in Santa Monica), Miller majored in economics at the University of California at Berkeley, and received his degree there.

Alison Will Feature TM Plants Meet

John R. Alison, vice-president, Administration, will be the guest speaker at the forthcoming joint dinner-meeting of all NRC Toastmaster and Toastmistress clubs from all facilities.

The event, to be held on June 12 at 7:30 p.m. in the Inglewood Elks' club, will be the second such meeting since the first NRC Toastmasters club was chartered in January 1953, and the first Toastmistress club received its charter in July 1953.

The meeting will follow accepted Toastmasters International parliamentary procedure and the formal speeches will be made by one member of each Toastmasters club.

Topic chairmen will be chosen from the two Toastmistress clubs.

The dinner menu features New York cuts, and tickets are priced at $2.50 each. Reservations may be made at Personnel Activities and Services, extension 2784.

The NRC Toastmasters and Toastmistress clubs now number six. They include two Toastmasters and one Toastmistress clubs from the Hawthorne facility, one Toastmasters and one Toastmistress club from the Anaheim facility, and the newly organized Toastmasters club from Ontario.

Presidents of the clubs cordially invite all interested Norcrafters to attend the dinner-meeting and learn more about this activity, which has gained international popularity.

OPEN HOME SHOW AT PAN-PACIFIC NEXT THURSDAY

The ninth annual Los Angeles Home Show will start on June 10 to 20 in the Pan Pacific Auditorium.

Home owners, prospective home owners, apartment dwellers and people who just like to look at new things can all derive profit and delight from this event, according to Frank Hess, Home Show president.

In addition to more than 200 exhibits, which include thousands of home-making and home-building items, three model homes will be on display, and special entertainment will be provided.

Norcrafters may obtain special discount tickets through Personnel Activities and Services which will enable them to attend the show any day or evening for 80c. Regular Home Show ticket price is $1.25. Tickets may be picked up at PA&S offices, Plants One and Three, or from PA&S representatives.

FIRST AID SLATE IN CD PROGRAM NEEDS TEACHERS

All Norcrafters who hold American Red Cross First Aid Instructor cards are requested to contact Jerry Baker, Civil Defense Coordinator, extension 1972.

Instructors are urgently needed to train volunteers in first aid work.

REVEAL PLAN OF FENCING CLUB TO RE-ORGANIZE

"On guard!" will be sounding again around the NRC Clubhouse with the reactivation of the NRC Fencing Club.

Club meets every other Tuesday — next meeting is June 15 — at 8:00 p.m. in the NRC Clubhouse, according to Ray Beste, acting commissioner.

Commissioner Beste advises all fencers to bring their own equipment and welcomes all visitors.

For additional information, contact PA&S, extension 2784.

Northrop News
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JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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News office phones—2456, 2457, 2732. Outside lines—OR 8-9111, OS 6-1121.

Resources Conference

BACK IN UNIFORM for two week session with other reserve officers, the above Norcrafters attended National Resources Conference recently held at Pasadena Civic Auditorium. They are, from left: Louis B. Race, Captain, USNR (Manufacturing Systems, Engineering); H. P. Dolim, Lt. Col. USAFR, Propulsion Installation); J. Jeresias Lipchack, Lt. Cmdr., USNR, (Project Representatives); and Charles W. Mills, USAFR, (Electro Mechanical Design.) Meeting was sponsored by Industrial College of the Armed Forces. Certificates of attendance were awarded at the close of the meetings.

AT YOUR CREDIT UNION

AUTOMOBILE LOANS are again in effect. Norcrafters with at least three years of continuous service can finance new car purchases, or re-finance older ones, re-paying by the easy payroll deduction method.

Down . . . . . Range

Roy L. Wolford, general supervisor, Photographic department, was recently elected president, Southern California Chapter, Society of Photographic Engineers . . . Roy had been, successively, second vice-president and first vice-president of the local chapter of nation-wide organization, dedicated to the application of science to photography . . .

ROY WOLFORD

Larry Donoghue, Palmdale Industrial Relations, had six good reasons for open house celebration during Armed Forces Day—arriving in time for the festivities were his wife Lillian; the four Donoghue children, Maria-Christine, Larry, jr., Elizabeth, and Peter; accompanied by mother-in-law, Mrs. Marcelle Mercier—family trip of 4500 miles from Melbourne, Florida, took in New York City and way points.

Security-conscious Florida Norcrafters have expressed highly favorable comment regarding security lectures recently delivered by Ray Williams, Plant Security and Protection Norcrafter from Hawthorne . . .

Frank Lyons, Engineering, general supervisor of Electrical, leaves early in June to attend meetings of the Advisory Staff for Aircraft Electrical Systems sponsored by the Air Force and the Navy—meetings will be held in Washington, D.C., and culminate with two-week London session — U.S. aircraft industry and that of United Kingdom will send representatives . . .

THE HITCHING POST

Ontario Romance

Married on 12 March 1954—Carroll Enge, Ontario Paint Strip leadman, and bride Ruth Mason . . . at Las Vegas, Nevada.

Oregon Honeymoon

Married on 14 April 1954—Dean Blankenburg, Ontario Industrial Engineering, and bride Joan Wettereau . . . in Las Vegas, Nevada . . . honeymoon in Portland, Oregon . . . at home in Ontario.

Waite-Graves Vows

Married on 6 March 1954—Bob Waite, Special Weapons Manufacturing, and bride Dorothy Graves, Production Ordering . . . at Lennox Bethany Church, Inglewood . . . honeymoon at Lake Arrowhead . . . at home in Inglewood.

Las Vegas Ceremony

Married on 23 April 1954—Robin Majure, Production Mock-up, and Anne Dix, Photo Lab . . . in Las Vegas, Nevada . . . at home in Morningside Park.

The STORK CLUB

New Geier

Born to Robert Geier, Missile Guidance Installation, and wife Shirley—son James Robert on 24 March 1954 . . . time, 12:13 p.m. . . . weight, 6 pounds 9½ ounces . . . Hawthorne Hospital.

Davis Boy

Alan Ray—born 20 April 1954 to Ralph A. Davis, Plumbing, and wife Donna . . . weight, 7 pounds 6 ounces . . . time, 1:10 a.m. . . . at Centinela hospital.

Piper Cub

Edwin M. Piper, jr.—born 19 April 1954 to Edwin M. Piper, Computing Analytical Services, and wife Virginia . . . weight, 5 pounds 4 ounces . . . in Seaside Memorial hospital, Long Beach.

Stringham Stalwart

Born to R. H. Stringham, jr. and wife Sue, Proposal Engineering—son Russell Sidney on 23 April 1954 . . . weight, 9 pounds.

George Ronald

Born to R. E. Weinberg, Materiel, MTF, Cocoa, Florida, and wife Lenore—son George Ronald on 11 April 1954 . . . time, 9:00 a.m. . . . weight, 9 pounds 4 ounces . . . at Wuesthoff Memorial hospital, Rockledge, Florida.

Rodens Rejoice

Born to W. S. Roden, Flight Test, Cocoa MTF, and wife Kathryn—daughter Carol Leigh on 15 March 1954 . . . time 4:49 a.m. . . . weight, 9 pounds 10½ ounces . . . at Brevard hospital, Melbourne, Florida.

Lucille Marvick

Born to Orville Marvick, Missile Laboratories, and wife Susie, Plant Security and Protection—daughter Lucille Mary on 27 March 1954 . . . time, 6:00 p.m. . . . weight, 10 pounds 2 ounces . . . at Hawthorne Community hospital.

Little Phil

Born to Bill Kerney, Cost Estimating, and wife Dorothy, Engineering Guidance—son Phil on 14 May 1954 . . . time, 3:00 p.m. . . . weight, 3 pounds 3 ounces . . . at Queen of Angels hospital.

Karry Maureen

Born to Don Sherman, Tool Budgets, and wife Nancy—daughter Karry Maureen on 16 May 1954 . . . time, 10:41 a.m. . . . weight, 10 pounds . . . at Torrance Memorial hospital.

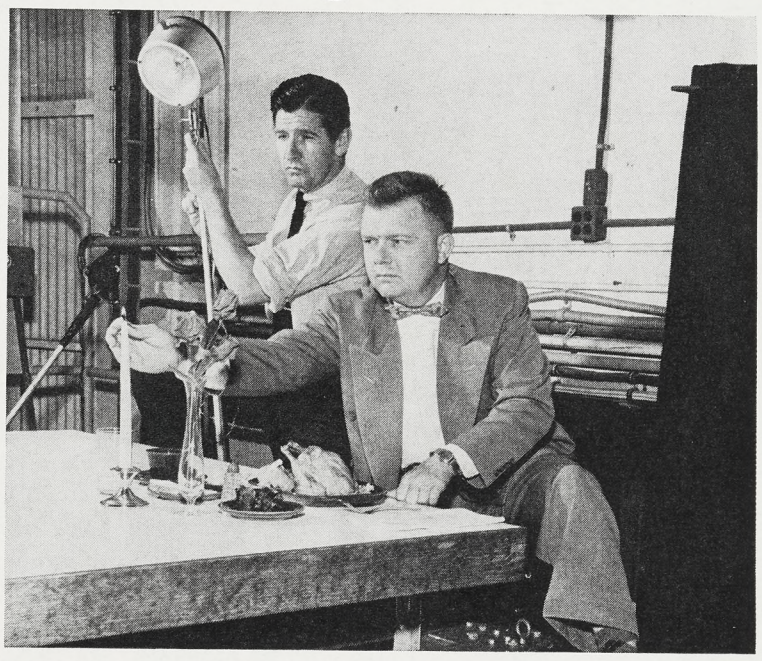
Sugimura's Joy

Born to George Sugimura, Engineering Test Lab, and wife Sachiko—daughter Joy on 14 May 1954 . . . time, 12:06 a.m. . . . weight, 7 pounds . . . at St. Vincents hospital.

Night Reporter

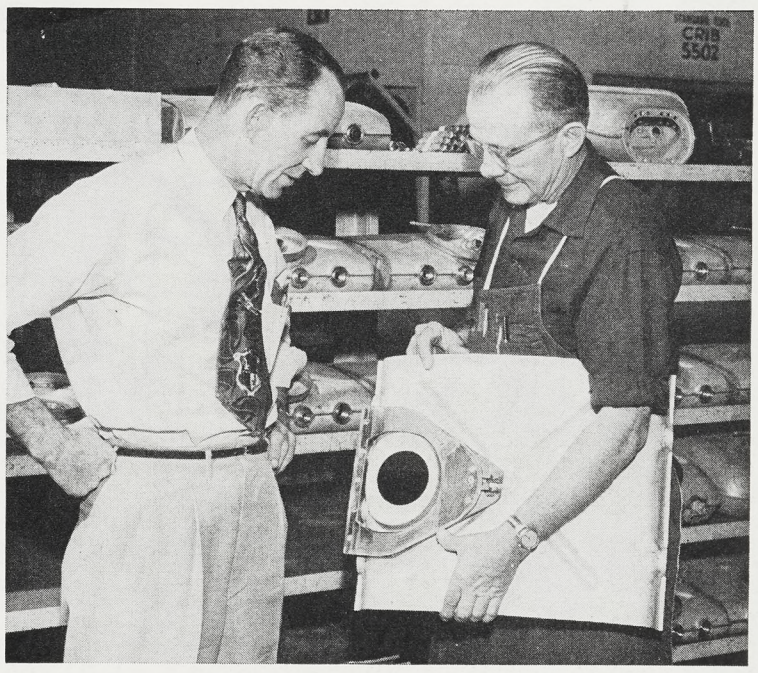
Born to Harry Herranen, Northrop News, nights, and wife Kathryn—daughter Mary Jo on 27 May 1954 . . . time 9:25 p.m. . . . weight, 7 pounds . . . at Centinela hospital. Grandfather on Mary Jo's mother's side of the family is Elmer Hensley, Maintenance.

For Pages of Life



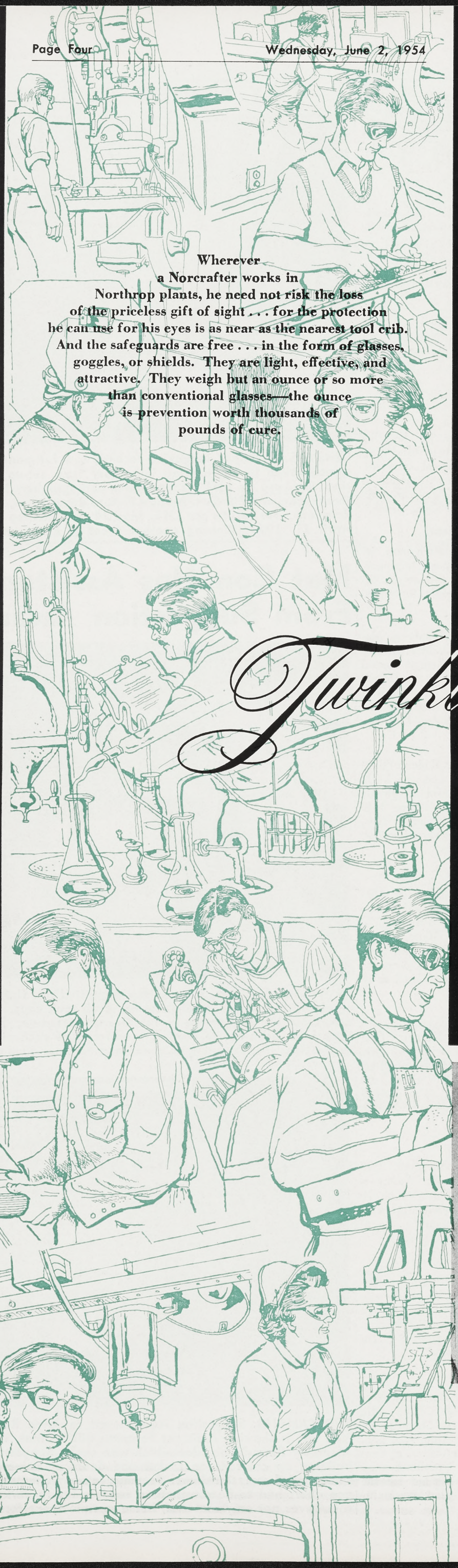
READERS OF "LIFE" magazine recently saw full-page color spread taken in Engineering laboratory from set-up being readied above by LIFE'S crack color photographer, Loomis Dean, rear, and Bill Cox, Motion Picture department, Public Relations. For results see LIFE, May 24, or Northrop News, April 21, 1951, showing another facet of demonstration.

Mat Con Has Assistance From Suggestion Awards

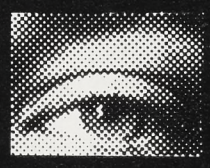


IN WELDING, nights, S. A. Sutton suggested saw fixture to eliminate layout and hand-shearing of oil tank caps. He is describing the suggestion to Pat Garrett, foreman. Rejections have been cut to minimum as result of cash-winning suggestion; even inexperienced can now turn out good piece.

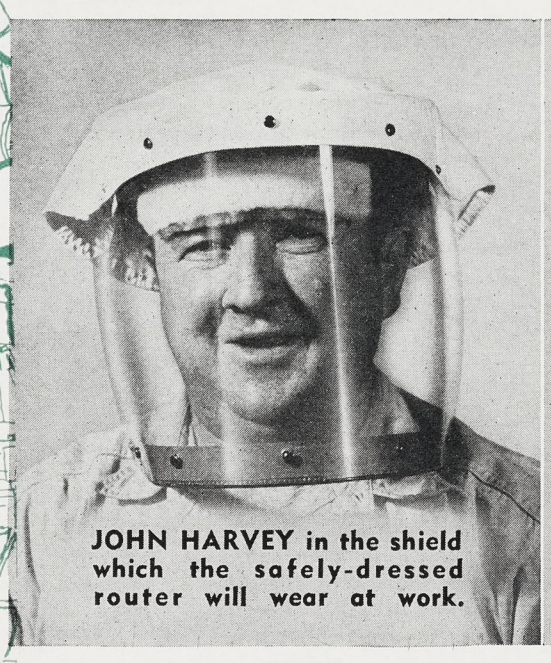
SUBSTANTIAL Suggestion Award went to Allen Rodgers, left, who is showing Assistant Foreman Bill Gramm, Vendor Assembly Rework, his idea which won cash. Suggestion of building up cal rods on rocket pod doors by using silver solder saved scores of doors. Previous to suggestion rejected pod doors had to be returned to vendors for re-work; idea thus saves not only material, but also time spent formerly.



Wherever a Norcrafter works in Northrop plants, he need not risk the loss of the priceless gift of sight . . . for the protection he can use for his eyes is as near as the nearest tool crib. And the safeguards are free . . . in the form of glasses, goggles, or shields. They are light, effective, and attractive. They weigh but an ounce or so more than conventional glasses—the ounce is prevention worth thousands of pounds of cure.



Twinkling of an eye



JOHN HARVEY in the shield which the safely-dressed router will wear at work.

BERNICE SKRZYSINSKI shows usual type recommended for clerks, inspectors.

PILOT'S PROTECTION, in the form of shield attached to helmet, issued to all pilots.

RUTH ELDREDGE shows spectacle with side-shield, used in drilling, riveting.

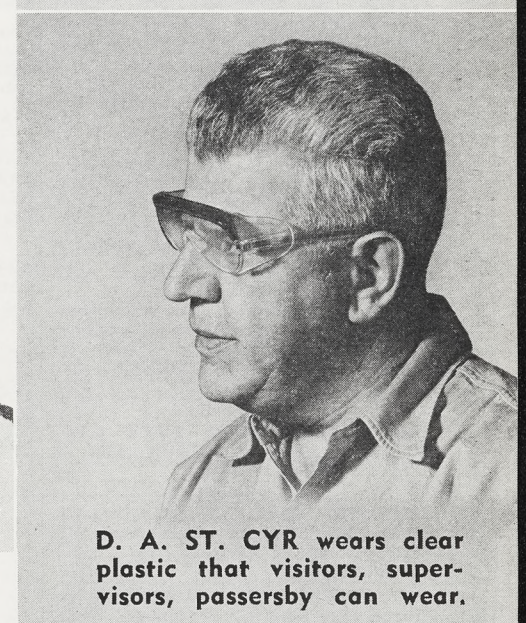
RAY REECE, in adjustable head shield, wears proper Norcrafter gas welder's gear.

ALICE VON FLOTOW, with glasses for fabrication-use, is ready for metal burring.

O. O. CORBELL, with special cover shield over own glasses, ready for outside areas.

B. M. HEROD displays the screen foundry shield used when pouring molten metals.

RUTH MOTHERSHEAD models visor goggle, suitable for sub-assembly, rivet-shaving.



D. A. ST. CYR wears clear plastic that visitors, supervisors, passersby can wear.

AL KIMBELL, in well-known welder's helmet, is garbed in style for arc-welding.

Nationwide eye-injury statistics are cold and impersonal figures, but they represent living, human beings—too many of them—and the loss they stand for is incalculable.

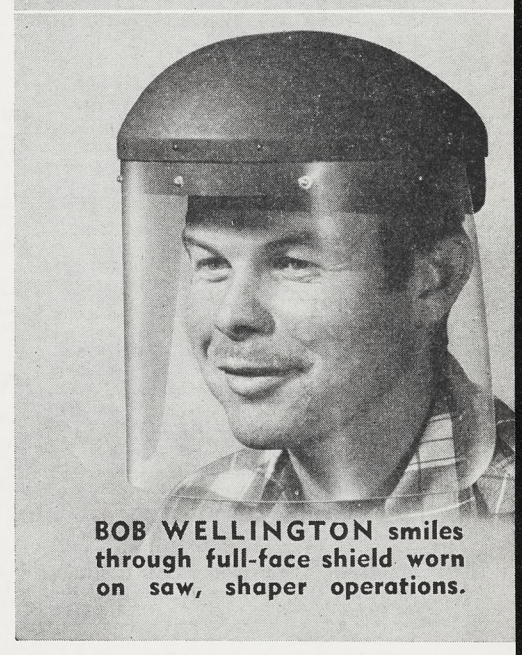
Statistics like these are unnecessary here . . . glasses are free for the asking at any tool crib, and they have advantages.

The Norcrafter working in (or going through) areas where chips or dust are flying feels safer and surer with glasses, knowing that his eyes are well protected.

The skilled craftsman works better and with more precision when he watches his work thru the clear, clean glass of his safety lens. He need not blink in fear, nor turn his head in instinctive move to avoid particles.

The twinkling of an eye is a phrase that means incredibly fast. But it also means, with only slight change, the warm gleam that comes from within.

The latter twinkling is worth protecting; there is nothing on God's good earth that will restore it once it is gone . . . and it can vanish in a twinkling, for particles fly faster than the eye can wink.



BOB WELLINGTON smiles through full-face shield worn on saw, shaper operations.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 1)
WESTERN & SANTA MONICA BLVD., Hollywood. (Travel Western, Van Ness or Crenshaw Blvd.). W. J. FORBELL (5234-17, Ext. 1981), HO 5-9121. 12-1

(Zone 5)
DEL AMO & PARAMOUNT or Downey, Lakewood. AL CATKIN (5587-399, Ext. 1947), L.B. 394518. 12-5

(Zone 6)
ATLANTIC AVE. & OCEAN BLVD., Long Beach. (North to Coast Hwy., west on Coast Hwy. or Willow to Western, north to plant). RALPH T. JAMES (7310-24, Ext. 2362). 12-6

(Zone 8)
CRENSHAW & HWY. 101, Torrance. (Room for 2 more riders). JAMES E. LYNCH (5163-38, Ext. 1821), DAvenport 6-5251. 12-8

(Zone 12)
LINCOLN & BROOKS or Main & Brooks, Venice. RAYMOND KIEFT (5538-38, Ext. 525). 12-12

(Zone 14)
MELROSE & LA JOLLA, Los Angeles (48). (Room for one or two riders. Route: La Jolla to San Vicente via Sweetzer, La Brea, Centinela, Prairie). SAM A. NOLAN (5373-172, Ext. 1576 or 2420), WEbster 3-3501. 12-14

7:30 a.m. — 4:15 p.m.

(Zone 1)
BEVERLY & VERMONT, Los Angeles. (Route: Beverly Blvd., Western, Century, Prairie). BERNARD DROTMAN (5910-31, Ext. 2650), DU 7-0923. 13-1

EIGHTH AVE. & 60TH ST., Los Angeles (43). (Route: Eighth Ave., Crenshaw, Broadway). PLeasant 1-1411. 13-1

(Zone 2)
EASTERN AVE. & SO. HUNTINGTON DR., Los Angeles (32). RICHARD C. BENNER (3270-11, Ext. 2034), CA 2-5877.

NORMANDIE & 80TH or Western & 80th, Los Angeles. SARAH HAZAN (3140-719, Ext. 495 or 459), PL 8-5176. 13-2

(Zone 3)
OLIVE & MARUETTE, Pomona. (Route: Brea Canyon, Carmentia, west on Rosecrans Blvd. to Crenshaw. Prefer car pool). ROBERT ELTON (U.S.A.F., Ext. 1400). 13-3

(Zone 5)
ROSECRANS & LONG BEACH BLVD., Compton. JOHN R. BUCKLEY (3230-14, Ext. 539), NE 2-5320. 13-5

(Zone 9)
REDONDO BEACH & HAWTHORNE, Lawndale. (Interested in car pool). MYRON L. BAKER (5910-34, Ext. 2650), FRontier 4-4927. 13-9

HAWTHORNE BLVD. & SEPULVEDA, Torrance. (Can take four passengers. Route: North on Hawthorne Blvd. to El Segundo Blvd.). ROSALIE J. FISHER (4300-35, Ext. 2436), FRontier 5-5096. 13-9

(Zone 10)
AVIATION BLVD. & MANHATTAN BEACH BLVD., Manhattan Beach. A. E. BLANCIAK (3310-69, Ext. 462), FR 2-7116.

(Zone 12)
LINCOLN & VENICE, Venice. (Route: Lincoln Blvd. via Westchester and Inglewood, down Prairie). R. E. ANDREWS (5112-17, Ext. 1475), EX 8-8619. 13-12

(Zone 13)
LA BREA & CENTINELA, Inglewood. (Room for 4). DAVID M. HOLDEN (8320-75, Ext. 2011), OR 7-9020. 13-13

(Zone 14)
LA BREA & SANTA MONICA, Hollywood. (Will pick up anywhere on La Brea south of Santa Monica to Manchester. Want Plant III riders ONLY). D. K. HALLINAN (3140-831, Ext. 1848), HO 3-0906. 13-14

FAIRFAX & BEVERLY or Melrose, Los Angeles. J. J. KANAREK (3410-834, Ext. 1816), WE 3624. 13-14

CRENSHAW & RODEO ROAD. (Travel Buckingham, Santa Rosalia, Vernon, Crenshaw Blvd., 59th St., 8th Ave., Crenshaw), Los Angeles. KAROLL SHURTZ (3120-21, Ext. 1689 or 1226), AXminster 2-3692. (13-14)

3:45 p.m. — 12:15 a.m.

(Zone 4)
IMPERIAL HWY. & ATLANTIC, Lynwood. WALTER J. FRAUF (5501-461, Ext. 2200).

(Zone 5)
PIONEER BLVD. & ORANGETHORPE, Artesia. (Can take 2 riders). MARVIN W. SCOTT (7210-268, Ext. 508). 16-5

BELLFLOWER & CARSON, Seal Beach. CARL E. TURNER (5538-415, Ext. 525), L.B. 392304. 16-5

RIDES OFFERED

4:45 p.m. — 1:15 a.m.

(Zone 1)
MELROSE & VIRGIL. (Route: Vermont Ave., 22nd to Western Ave., 74th st., Crenshaw), Hollywood. B. JACOBS (5507-416, Ext. 526), NO. 3-6712. (18-1)

(Zone 2)
VENICE BLVD. & HILL ST., Los Angeles. M. V. AGUIRRE (5544-482, Ext. 2645), RI. 8-8091. (18-2)

(Zone 3)
GARVEY AT PUENTE AVE. or Glendora, West Covina. (Interested in car pool only in vicinity of Covina, West Covina, Baldwin Park or Puente). GEORGE R. PRESLEY (5587-217, Ext. 2236). 18-3

RUTHELEN ST. & 104TH ST., Los Angeles. CONNIE MULLEN (5507-619, Ext. 526), PL 4-7933. 18-3

(Zone 5)
ROSECRANS & STUDEBAKER RD., Norwalk. (Will pick up riders anywhere along Rosecrans Blvd., leave home at 3:50 p.m.). ELAINE STEINER (5544-402, Ext. 2645), TOrrey 4-0868. 18-5

HIGHWAY 39 & CHAPMAN BLVD., Garden Grove. (Highway 39 to Firestone Blvd. to Rosecrans). IRENE BLUME (5544-403, Ext. 2645). 18-5

WOODS & ORANGETHORPE. (Interested in car pool only), Fullerton. EUGENE J. SNELLER (5587-414, Ext. 1947), LAmbert 5-8729. (18-5)

(Zone 6)
ANAHEIM & PINE, Long Beach. R. B. OGLISBIE (7050-214, Ext. 1887-1269). 18-6

(Zone 7)
VERMONT & 182ND ST., Gardena. GRACE HAZLETT (4100-223, Ext. 2331). 18-7

(Zone 10)
HAWTHORNE & ROSECRANS, Lawndale. (Will pick up between bordering streets). BILL NEWMAN (5587-619, Ext. 1947), OS 6-4841. 18-10

(Zone 11)
MARIPOSA & CENTER ST., El Segundo. JOHN WHITE (5524-270, Ext. 2421), El Segundo 374M. (8-11)

(Zone 14)
HOLLYWOOD FREEWAY, Hollywood (28). (Any intersection on La Brea—2 riders). CLARENCE D. FLANAGAN (5586-255, Ext. 1973), HO 7-4291. 18-14

Rides Wanted

7:00 a.m. — 3:45 p.m.

(Zone 1)
THIRD ST. & MARIPOSA AVE., Los Angeles (5). E. C. OJEDA (5508-533, Ext. 2327), DU 2-9435. 2-1

(Zone 2)
BIXEL & WILSHIRE or 6th, Los Angeles. ROBERT E. GILMORE (5501-35, Ext. 2200), MA 9-0187. 2-2

(Zone 3)
FIGUEROA & CENTURY or 98th, Los Angeles. MARIANNE VIKLA (7400-13, Ext. 1240). 2-3

(Zone 5)
SPRING & BELLFLOWER, Lakewood. POLLY SCHADLER (9320-77, Ext. 2151), OR 1-2069. 2-5

WARDLOW & BELLFLOWER (near Carson), Long Beach. JEANETTE HANNA (6269-31, Ext. 2114), L.B. 39-8178. 2-5

COMPTON & WILMINGTON, Compton. W. GRAHAM (5338-42, Ext. 2424), NE 2-3310. 2-5

DEL AMO & PARAMOUNT or Downey, Lakewood. AL CATKIN (5587-399, Ext. 1947), L.B. 394518. 2-5

EXCELSIOR DR. & GRIDLEY RD. or Alondra & Gridley Rd., Norwalk. MARVIN H. WIEBE (5232-36, Ext. 2181), TOrrey 4-6061. 2-5

ANAHEIM & CHERRY, Long Beach. JODIE STANTON (5507-304, Ext. 564). 2-5

(Zone 7)
HWY. 101 & WILMINGTON or Avalon, Wilmington. JOHN W. CATLETT (5584-188, Ext. 1381). 2-7

HWY. 101 & WILMINGTON or Avalon, Wilmington. JOHN W. CATLETT (5584-188, Ext. 1381). 2-7

RIDES WANTED

7:00 a.m. — 3:45 p.m.

(Zone 9)
INGLEWOOD AVE. & 167TH, Redondo Beach. JOANNA D. ROTH (5160-15, Ext. 548), FR 2-8004. 2-9

(Zone 10)
OCEAN GATE & 134TH ST. or Inglewood Ave. & 134th, Hawthorne. LUCIO VALENZUELA (5503-527, Ext. 2681), OS 5-3583. 2-10

(Zone 11)
MAIN & EUCALYPTUS, El Segundo. ERNA M. SNIDER (5508-23, Ext. 2330, 1463), El S. 1128W. 2-11

(Zone 14)
SANTA BARBARA & CRENSHAW, Los Angeles (8). ELIZABETH DROVES (5621-132, Ext. 1852), AX 3-8046. 2-14

7:30 a.m. — 4:15 p.m.

(Zone 1)
HOLLYWOOD BLVD. & WESTERN, Hollywood. DONALD E. LILLA (7510-70, Ext. 2438), NO 9260. 3-1

WILSHIRE & HOOVER or Vermont, Los Angeles (5). MARGARET TISONCIK (5128-76, Ext. 1656), DUnkirk 2-0494. 3-1

BEVERLY & VERMONT, Los Angeles. (Route: Beverly Blvd., Western, Century, Prairie). BERNARD DROTMAN (5910-31, Ext. 2650), DU 7-0923. 3-1

VERMONT & LOS FELIZ, Los Angeles. EMMETT SHIELDS (3140-37, Ext. 459), NOrmandy 2-4734. 3-1

VERMONT & SANTA MONICA, Los Angeles. JACKIE BECKLE (3310-115, Ext. 443), NO. 2-3277. (3-1)

(Zone 2)
AVE. 50 & YORK BLVD., Los Angeles (42). EDWARD F. ETTER (5910-847, Ext. 1314), CL 7-2308. 3-2

FIGUEROA & 52ND ST., Highland Park. (Like to join car pool having 3 to 5 riders). FRANK J. INDELICATO (7510-32, Ext. 2418). 3-2

EASTERN AVE. & SO. HUNTINGTON DR., Los Angeles (32). RICHARD C. BENNER (3270-11, Ext. 2034), CA 2-5877. 3-2

NORMANDIE & FLORENCE. (Ride home only), Los Angeles. PAT PERINGTON (1441-77, Ext. 1403), PL. 1-0313. (3-2)

(Zone 3)
OLIVE & MARUETTE, Pomona. (Route: Brea Canyon, Carmentia, west on Rosecrans Blvd. to Crenshaw. Prefer car pool). ROBERT ELTON (U.S.A.F., Ext. 1400). 3-3

(Zone 4)
LONG BEACH BLVD. & PINE ST., Lynwood. BEVERLY F. WALDEN (3140-723, Ext. 495 or 459), NE. 2-5577. (3-4)

(Zone 5)
SPRING & BELLFLOWER, Lakewood. POLLY SCHADLER (9320-77, Ext. 2151), OR 1-2069 3-5

ROSECRANS & LONG BEACH BLVD., Compton. JOHN R. BUCKLEY (3230-14, Ext. 539), NE 2-5320. 3-5

SPRING ST. & BELLFLOWER BLVD. (Lakewood), Long Beach. LOU ELLA MARTIN (3310-72, Ext. 462). 3-5

(Zone 7)
COMPTON & VAN NESS or Crenshaw, Gardena. BARBARA DRUMMOND (6610-47, Ext. 1787), MEnlo 4-3044. 3-7

(Zone 8)
CRENSHAW & 174TH, Torrance. JOYCE RANZENBERGER (3148-742, Ext. 495), ME 4-9618. 3-8

CRENSHAW & COMPTON, Gardena. (Ride home only). JEAN GARZA (1441-93, Ext. 691). 3-8

WESTERN & TORRANCE BLVD., Torrance. BARBARA GOODWIN (4240-17, Ext. 777), FA 8-6061. 3-8

(Zone 9)
COMPTON & PRAIRIE AVE., Lawndale. DOROTHY BENNETT (1441-21, Ext. 2728), OS 5-2089. 3-9

REDONDO BEACH & HAWTHORNE, Lawndale. (Interested in car pool). MYRON L. BAKER (5910-34, Ext. 2650), FRontier 4-4927. 3-9

(Zone 10)
AVIATION BLVD. & MANHATTAN BEACH BLVD., Manhattan Beach. A. E. BLANCIAK (3310-69, Ext. 462), FR 2-7116. 3-10

PIER AVE. & HWY. 101, Hermosa Beach. (Ride home would be satisfactory). ROSALIE GEESAMAN (1435-55, Ext. 2228). 3-10

(Zone 13)
CENTURY & EUCALYPTUS, Inglewood. VIOLA D. BODDY (7410-33, Ext. 2284), OR 7-6948. 3-13

BAGLEY & VENICE OR NATIONAL, Los Angeles (34). NICHOLAS SNOWDEN (USAF, Ext. 1906), VE 8-7069. 3-13

(Zone 14)
CRENSHAW & 63RD ST., Los Angeles. A. M. POSSEL (5152-21, Ext. 1956). 3-14

8:00 a.m. — 4:45 p.m.

(Zone 2)
WESTERN AVE. & 94TH PLACE, Los Angeles (47). (Interested in car pool). ELLEN L. BRISACHER, JR. (4270-36, Ext. 2784), PL 4-7117. 5-2

3:45 p.m. — 12:15 a.m.

(Zone 13)
SEPULVEDA & JEFFERSON, Culver City. ANTHONY REZNIK (5534-440, Ext. 2244). 6-13

Muroc Bowling Champs

TOURNAMENT WINNERS in Edwards winter bowling league are being presented with trophies by Louve McCabe, NRC veep at the desert base. They are, from left: R. D. Guilmette, Flight Service; C. A. Berdan, Timekeeping; L. W. Brown, Flight Service; R. N. Grafton, Inspection; C. W. Stevens, Flight Service. Team came from behind to win over ten-team field. Combo was known as the "Dead Pins".

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Zone 2)
FIGUEROA & 7TH or Broadway & 7th, Los Angeles. P. J. SIGNER (5588-476, Ext. 1529), TR 0368. 8-2

(Zone 3)
GARVEY AT PUENTE AVE. or Glendora, West Covina. (Interested in car pool only in vicinity of Covina, West Covina, Baldwin Park or Puente). GEORGE R. PRESLEY (5587-217, Ext. 2236). 8-3

(Zone 5)
WOODS & ORANGETHORPE. (Interested in car pool only), Fullerton. EUGENE J. SNELLER (5587-414, Ext. 1947), LAmbert 5-8729. (8-5)

(Zone 6)
ANAHEIM & PINE, Long Beach. R. B. OGLISBIE (7050-214, Ext. 1887-1269). 8-6

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Zone 12)
SEPULVEDA & 78TH ST., Los Angeles (45). W. C. LEE (5622-248, Ext. 2133-2478). 8-12

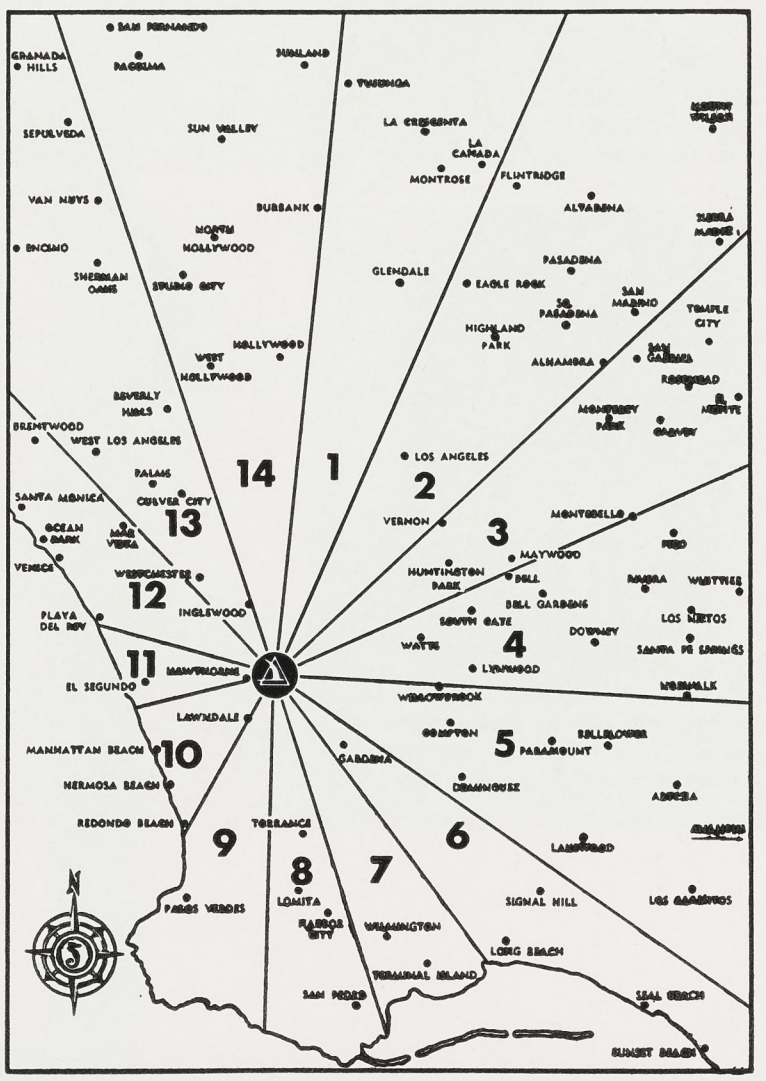
(Zone 14)
BEVERLY BLVD. & ROBERTSON BLVD., Los Angeles (48). LEE MURACK (5587-488, Ext. 1947), CRestview 4-3043. 8-14

Miscellaneous (Split Shifts)

(Zone 5)
CARSON & PALO VERDE, Long Beach. (Hours 4:15 to 12:45). NAOMI L. WELCH (9330-233, Ext. 1471), L.B. 396240. 10-5

(Zone 11)
AVIATION BLVD. & 134RD ST., Hawthorne. (Hours 4:15 to 1:00). ALYCE M. SNYDER (6230-222, Ext. 721), OS 6-9953.

GMW Zone Map



BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

NASH '600', 1948 4-door sedan, good transportation, good brakes, 2 new tires, $225, no more—no less. L. BROOKSHIRE, OR 2-4910. A

OLDSMOBILE, 1951 4-door deluxe sedan, fully equipped, very clean, 25,000 miles, twin spotlights, Van Auken bumper guards, Lifeguard innertubes, $1795. JOAN CRUICKSHANK, OR 1-7107, after 6 p.m. A

HOUSE, new, 3-bedroom, large lot, in Palmdale, ready for occupancy about June 1, $9750, reasonable down payment. J. N. BARKER, OR 1-7332. A

DIAMOND RING, center stone 1/3 carat, 18 surrounding diamonds, 4 baguettes, platinum setting, $325. SHIRLEE COOMES, NEwmark 5-1090. A

LIVING ROOM SET, 2-piece, $20; extra overstuffed CHAIR, $5; 2 floor LAMPS, $15; BOOK RACK and MAGAZINE STAND, $2. MARGARET BORTNER, PL 5-4759. A

REFRIGERATOR, Norge, good running condition, $25. L. CANNON. Reply in writing to Northrop News, Box 2214. A

PARAKEETS, young, variety of colors, $3 and up. C. SAFRANEK. Reply in writing to Northrop News, Box 2213. A

RIFLE, U.S. M1917 Enfield, .30-06, excellent condition, drilled and tapped for scope, box ammo, $29; SHOTGUN, 12 gauge, Stevens single hammer, 36" bbl., taper choke, ejector, very good condition, bore perfect, $12. C. W. FRANKLIN. Reply in writing to Northrop News, Box 2212. A

KITTENS, Sealpoint Siamese, excellent health, 7 weeks old, $10. RALPH MORRIS, TO 6-2422. A

ROW BOAT, clean, white and green, 3-place, 11', with 1954 Big Bear Lake $10 license, $45. W. K. GRIMES, OR 7-2589. A

DRAFTING MACHINE, detailer, like new, $50; Lionel ELECTRIC TRAIN, 0-27 gauge, engine, 5 cars, 2 switches, plenty of track, good condition, $12; DINING ROOM SET, blonde oak, drop leaf, 2 drawers, 4 chairs, $125; BOAT, 14' custom plywood, mahogany fore deck and rails, forward locker, etc., beautiful condition, with trailer, $225; BENDIX Economat washer, completely automatic, excellent condition, $90. RAY E. WALLACE, FRontier 5-3737. A

HOUSE, 2-bedroom, double garage, corner lot, fruit trees, for sale by owner, Manhattan Beach, $9350. H. L. WARD, FR 4-3890 after 5 p.m. A

TELEVISION SET, red mahogany, Westinghouse, console, works good, exterior finish in excellent condition, 12" screen, $55; SADDLE, Lichtenberger-Ferguson make, natural tan, looks and is almost new, used only 6 times, bronc type with complete rawhide tree, 14" swells and 14" seat, full plate rig and leather aft. girt, paid $200 new, will sell for $145. MARION E. DEEDS, FRontier 2-4876. A

DISHES—56 pieces, Franciscan "Apple" pattern, complete service for eight, additional pieces, excellent condition, will accept any reasonable offer. WHitney 5424. A

CLOTHES LINE POLES, 1 pair, steel, $5; clothesline free. R. A. SHEPHERD, ME 4-1528. A

CHRYSLER, '42 Highlander club coupe, 6 cylinder, good transportation, A-1 tires and Lifeguard tubes, offered $300 in trade, will take $150 cash. C. J. WATSON, OR 7-9843. A

ELECTRIC RANGE, Hotpoint, automatic oven control, clock and light, deep well cooker, broiler, 3 large utensil storage compartments, excellent condition, $100. ROBERT R. POINTER, EXbrook 9-7148. A

FISHING BOAT, A-1 condition, 26' long, 8' beam, 9' cabin, built by Fellows & Stewart, Gray marine engine, Briggs & Stratton bait engine, cheap, easy terms. E. L. DINNETZ, OR 7-1973. A

MOTOR, ½ h.p. Century, 1750 r.p.m., forward and reverse setting; double STEEL FRAME, glass panels, over 6' high, suitable for patio, etc. G. MERRILL, OS 6-1238. A

STOVE, apartment size kitchenette, $30; SUN VISOR, fits all cars, $5; three '88' or '98' Oldsmobile HUB CAPS, $1.25 each. W. T. CLAXTON. Reply in writing to Northrop News, Box 2210. A

OUTBOARD MOTOR, 7.5 h.p., 1952 Scott-Atwater, with gearshift, excellent condition, $175; TRAILER, 7' utility, ideal for rental or all-around use, $110. M. COLWELL, FRontier 4-9570. A

FOR SALE

TIRES, 8:00x15 Goodrich Life Saver tubeless, two like new, $50. H. WILLIFORD, OR 7-2914. A

FORD PARTS, '49 filled hood and grille, $30; 60 h.p. engine and transmission, $25; '47 6-cylinder engine, $20; '32 roadster body, frame and rear end, $25; chopped flywheel, $10; '47 Mercury engine, $40; '50 Mercury crankshaft, $35; hydraulic brakes, transmissions, etc. CHUCK QUESNEL, FR 2-8721. A

HOUSE—Leaving for Palmdale, must sell new 3-bedroom, hardwood floors, fenced yard and other extras, $9500 full price. BENJAMIN S. IWASON. Reply in writing to Northrop News, Box 2208. A

INBOARD BOAT with trailer, 14'6", V-8 motor, 95 h.p. EDYTHE B. GORDON, OS 6-7335 after 5:30 p.m. A

RIDING BOOTS, English, black, lady's sizes 6 or 6½ with hooks, $15. JIM MOORE, AX 2-3055. A

TIRES, three 6:70x15 casings, about 10,000 miles left in each tire, $13 for all three. H. ERLEBACH, TH 6-8785. A

HOUSETRAILER, 25', electric refrigerator, apartment size stove, good condition, 1947 model awning and frame included, $645. LORNA WARREN, OR 2-9279 between 10 a.m. and 8 p.m. A

SOFA BED, full size Lawson, print, in excellent condition, original cost $200, use in living room as a sofa, make into an extra bed when needed, will sell for $20. ALICE PERKIN, FAirfax 8-5265. A

FREEZER, 14 cu. ft. 1953 Victor, equity free, balance owed, $245.85. G. B. COPELAND, NEwmark 1-5588. A

WASHING MACHINE, Kenmore, very good condition, will sell very reasonable. MARIE VAIL, FR 9-2655. A

PRESS CAMERA, Speed Graphic, 2¼x3¼, like new. JOHN JANULEWICZ, PL 2-6947. A

LOT, 60'x150' with 60'x120' level, located on N. Beverly Glen Blvd., about 1 mile south of Mulholland, all utilities in street, $3750. TEPPER, NE 3-2652. A

BUICK Roadmaster, 1950, very good condition, $850. J. L. SOUZA, NEwmark 5-0682 after 10 a.m. A

PLAYGROUND SET, Ponderosa pine, 5 unit, slide, swing, bar, etc., 8'x11'2"x13', $125 set new, purchased from Mack's in Santa Monica, $45. A. LYNN, OR 1-2888. A

ARMY BUNK BEDS, two, wooden, mattresses included, $3 each. S. L. PETERSON, FR 9-1363. A

LAND, 80 acres 10 miles west of Lancaster, excellent soil, planted in wheat, ⅛ mile to main highway, $125 per acre, $1000 down. WOODY. Reply in writing to Northrop News, Box 2205. A

RUG, 12'x16½' Bigelow, wool frieze, cocoa color, like new, reasonable, $90. W. E. TRIPP, ORchard 2-7646. A

STUDIO COUCH, very good condition, used very little, cost $108, will sell for $55; call after 5 or on weekends. H. RAPSTAD, FAirfax 8-3425. A

STOVE, apartment size, good condition, may need a little cleaning up, $20. J. DONNELLAN. Reply in writing to Northrop News, Box 2200. A

LIVING ROOM SUITE, 2-piece, chair and divan, both make into beds, needs reupholstering, good frames. LOrain 6-1546. A

CHEVROLET, 1950 club coupe, excellent condition, light blue, radio and heater, good tires, $895. MARTHA GRAVES, PL 4-8833. A

FORD, good '47 club coupe, new paint, radio, heater, fair rubber, directional signals, seat covers, new spark plugs, chrome dash, nosed and decked, $395 cash. ART STAGNER, FAirfax 8-6568. A

FORD, 1952 Country sedan, $1700; 1952 Harley Davidson MOTORCYCLE, 74 OHV, $650, both like new, reasonable. EUGENIA EPPOLITE, OR 1-9320. A

HOUSEHOLD FURNISHINGS, two 9x12 grass RUGs, $5 each; Jenny Lind single BED and SPRINGS, $10; maple BUNK BEDS with mattress and innerspring mattress, excellent condition, $40. DOUG ADAMS, FR 5-7437. A

FORMAL, pink net, size 10, worn once. Call ORchard 7-0078 after 6 p.m. A

SCOOTER for child, balloon tires, good condition, $2; PRESSURE COOKER, Presto Fry Master, Model 400, used once, $15; FIREPLACE LOGS, excellent condition, $12.50; DINING ROOM SET, 8-piece matched walnut, perfect condition, table pads included, $125. ROY A. BALLING, OR 1-1943. A

FOR SALE

OLDSMOBILE, 1948 '98' 4-door, Hydra-Matic, clean, good condition, transfer and pick up 14 monthly payments of $44.24. E. L. KUNKEL, ME 4-7837. A

FORD, 1932 V-8 coupe, will trade for 1929 or 1930 Model A pickup truck. P. MAJORS, TW 2958 after 4 p.m. A

HOUSE, 3-room, like new, Desert Hot Springs, $4000, terms. L. R. HENDRICKSON, CH 9-4025. A

CHEVROLET, 1937 coupe, excellent condition, $90. EDW. CHESWICK, ORchard 7-4365. A

CHEVROLET, 1942 1½ ton stake truck, just overhauled, new rings, etc., tires fair, $200; International Harvester DEEP FREEZE, 15.8 cubic feet, less than two years old, cost $565, price $225. K. I. DAVENPORT, PLeasant 2-8103. A

OUTBOARD MOTOR, 1953 Mercury Mark, A-1 condition, runs perfectly, $200. LARRY POYNTER, ME 9-5289. A

CHRIS CRAFT, 17', less than 1 year old, combination speedboat and sportfisher, new Mercury V-8 engine, Paragon transmission, full set instruments, all accessories, sturdy steel trailer licensed for '54, compass, running lights, fiber glass covered, autobailer, 2 props; make offer. E. KOWAL. Reply in writing to Northrop News, Box 2218. A

STUDEBAKER, 1951 convertible, low equity, take over payments $45 month; ACCORDION, 160 bass, like new, $350 cash, could be financed; Stradivari Italian made. SHIRLEY N. LISTER, TErminal 4-7747. A

MECHANIC TOOLS, heavy duty, $225. FLORENCE JANZEN, NE 2-9429. A

COMMUNICATIONS RECEIVER, 4 bands, broadcast and 3 short wave, Model SW-54 National, beautiful grey metallic case, in excellent condition, price open for discussion. T. A. McALISTER, NE 8-3592. A

TRAILER, utility 4½'x9'x4', 300 lbs. capacity, ideal for moving, landscaping. C. M. OLSON, OSborne 5-6500. A

CEDAR CHEST, Lane, walnut finish, good condition, $35. BETTY HARSEY, AX 2-6844. A

DINETTE SET, chrome, like new, gray formica table top and four matching chairs, at a give-away price of $45. OS 5-2058. A

CHROME WHEEL DISCS, set of 4, deluxe type, to fit '50, '51 or '52 Plymouth. JULES D. PRATTE, OS 5-3944. A

CHEVROLET, 1940, new paint, 20,000 miles on rebuilt engine, good condition, fairly good tires, $150; RECORDS, selling my entire collection, 12" long playing—$1 each; 10" long playing, $.75 each; 45's—$.25 each; classical and semi-classical, large selection. HAROLD CURTIS, DAvis 9-1163. A

RIFLE, .22 Stevens semi-automatic, new scope sight, shoots .22 short or long, a real bargain, make offer. E. L. OSBURNE, OS 6-4014. A

TIRES, two excellent 5:50x17, tubes and wheels, $7 for all; BABY SCALE, weight type, $8; baby PLAYPEN, $10; genuine walnut DINING SET, table, extending type, extra boards, complete pad set, chairs and buffet, $50. PAUL M. WATRO, PL 1-8334. A

CHEVROLET, 1942 2-door sedan, '47 engine, tires good, one owner. OR 8-7406. A

TELEPHONE POLE, 40', new condition, good creosote, excellent for fringe area T.V. mast or ham antenna beam, $20; Cadillac STEERING WHEEL with horn ring, $7.50. ROBERT E. WALKER, EX 8-5201. A

CAMERA, Argus color, A3, case and accessories, excellent condition, $15; miscellaneous darkroom equipment. PARKER SEVERSON, WE 8-8007. A

CHEVROLET '53, two-tone color, 2-door sport coupe, low mileage, good condition, extras, private party, $1795. JACK A. LOCKHART, FOrrest 8-0841 evenings. A

BUICK, 1949 super 4-door sedan, very clean, $745; OUTBOARD MOTOR, Elgin 5½ h.p., $85; automatic WASHER, Launderall, $35; TAYLOR TOT, $12; all in very good condition. DON R. GUYSE, PL 1-9954. A

ROASTER on stand with broiler attachment, Nesco, excellent condition, $30. LAWRENCE D. ABRAMS, WEbster 1-8478. A

OLDSMOBILE 88, 1952 2-door sedan with Hydra-Matic, signal lights, radio and heater, air conditioning, excellent condition, will sell for best offer. ELLSWORTH W. SMITH, OR 7-9743. A

HOUSE, 2 bedrooms, 3 years old, on lot 55'x170', stucco, double garage, completely landscaped, fenced-in yard with large walled-in patio, garbage disposal, plush wall-to-wall carpeting, large picture window with traverse drapes and matching upholstered headboxes, thermostat-controlled heat, completely redecorated, ready for occupancy, 5 minutes from Northrop, $1450 down, full price $11,500. JANET G. BOYER, PL 5-2140. A

OLDSMOBILE, 1950 "98" 4-door sedan, Hydra-Matic, radio, heater, extras, original powder blue paint, brakes relined, good tires, low mileage, $950. CHARLES CARRON, DUnkirk 2-9480. A

WEDDING DRESS, size 16, white satin and lace, custom made, material cost $50, never worn, must see to appreciate, $50 or make offer. G. L. CAMPBELL, OS 6-2134. A

FOR SALE

REFRIGERATOR, 4½ cu. ft. trailer-size, Sanitary Electric, 18 months old, porcelain enamel inside and out, cost $149.50, sell for $75. S. W. ABBOTT, OSborne 6-2678. A

WOOD LATHE, 12" Delta, nearly new, $60. R. MOLLER, OS 6-5559 or TW 0646. A

ELECTRIC RANGE, Kelvinator, good condition, $115. IRENE ECK, FRontier 9-4449. A

GAS STOVE, Wedgewood, automatic clock control, grill, etc., perfect condition, $69. S. L. PETERSON, OR 8-6319. A

PARAKEETS, beautiful, young, healthy birds, will make wonderful pets, all colors, $2 each. DON McCULLOCH, ORchard 2-2434. A

CHEVROLET Fleetline 1948 sedan, deluxe, radio, heater, windshield washer, defroster, good tires, excellent condition, upholstery perfect, good chrome, good paint, $350 for equity, balance $33.80 per month. BETTIE ROYCE, PL 4-5374. A

HYDROPLANE, 8', and 5 h.p. OUTBOARD MOTOR, $100. ROY L. STAHL, VErmont 8-1802. A

CHEVROLET, 1954 Bel Air two-door, four months old, 3200 miles, metallic green body, ivory top, w/w tires, radio, heater and defrost, cost $2530, sell for $2030. GEO. E. BECK, PL 6-9035. A

FIREPLACE SET, including folding screen, end irons, stand with poker, broom and shovel, $15. W. C. DOANE, PL 4-6559. A

OUTBOARD MOTOR, 16 h.p. Elgin, 1952 model, reverse, neutral and forward gears, good condition, $125; 7½ h.p. Scott-Atwater 1950 model, no gear shift, has had about 10 hours actual running time, $75. Phone AX 9223 evenings. A

CHEVROLET, 1947 4-door sedan, two-tone, white sidewalls, radio and heater, free equity, $31.77 per month payments, balance $345, needs radiator repair and body work, good motor and tires; walnut BEDROOM SUITE, including cedar chest, vanity and bench, bed, night stand and 4-drawer unit, $75. ELAINE STEINER, TOrrey 4-0868. A

TAPE RECORDER, Ekotape model, complete with attachments, only six months old, cost $140, will sell for $70. CHARLES CARRON, DUnkirk 2-9480. A

COTTAGE, small four-room, lot 70'x150', $1000 down, payments $32.50 per month; would consider car as partial down; full price $5750. Call OS 6-5847 and ask for Mollie. A

CHEVROLET, 1952 Bel Air, radio, heater, white walls and Powerglide. OR 7-0616 after 5:30. A

CHRYSLER, '47 convertible coupe, take over 5 monthly payments of $43.56 each, $50 for my equity, must sell, lost driver's license. R. M. MITCHELL, HEnlo 9-2694. A

TUXEDO, size 42, practically new, no reasonable offer refused. W. A. WANDERER. Reply in writing to Northrop News, Box 2220. A

CAMPING TRAILER, all metal teardrop, approximate size 5'x12', insulated, cooking provisions, closets, full size bed plus bunk bed, inside and outside lights, will track at high speed, must see to appreciate, full price $250. ORchard 1-4080. A

ICE SKATES, with leather blade guards, size 8½, very good condition, $5. JAMES CELONI, RE 1-4496. A

FOR SALE

CARRYALL — Dodge GI, ideal hunting, fishing vehicle, two roll-up bunks, winch with 300' ½" cable, four-wheel drive, mud, snow and sand tires with plenty of miles left, spotlight, trailer hitch, trailer brake, altimeter, 4 jeep can holders, fishing rod rack, good paint; all in A-1 running order. This Carryall will go anywhere — it will get you into the back country, $850. CHARLES BRADFORD, PL 4-4384. A

HOUSE, two-bedroom, hardwood floors, ceramic tile in kitchen and pullman bath, glass-enclosed tub with shower, garbage disposal and inlaid linoleum in kitchen, completely weatherstripped and insulated, 60'x140' lot fully landscaped, 14 trees and approximately 100 rose bushes, five-foot redwood fence around rear yard which is floodlighted for your evening enjoyment, close to grade and high schools in Brea; full price $10,500 with only $495 down, GI resale. C. SMITH, JAsper 9-2736 for further information. A

BICYCLE, Schwinn 26", man's, new front wheel, hand brake and tire, $25; DE SOTO, 1940 4-door sedan, lots of new parts, make offer. GERALD P. RECTOR, VE 8-6095. A

VACUUM CLEANER, Hoover, $5; small wardrobe TRUNK, $4; four handmade imported BEER MUGS, $2; CLOTHES DRYING RACK, $1; crystal CANDY JAR, $1; metallic cloth WALLET and COIN PURSE, $2; imported beaded EVENING BAG, like new, $2; enamel kitchen CABINET, 16x20, like new, $4. B. C. BARTON, ARizona 7-1539. A

REFRIGERATOR, 9' Coldspot, good condition, $65; good apartment size stove, $40; HIGH CHAIR, baby CRIB, almost new MATTRESS, make offer; new 12' Glasspar BOAT, $250; 7½ h.p. Scott-Atwater MOTOR, $175. M. B. WALTER, FR 4-2190. A

LOTS (2), at Big Bear; sacrifice. T. F. EBERHART, AX 2-4718. A

TRAILER, large teardrop, innerspring mattress, kitchen, ice box, 2-burner Coleman stove, 6x6 extra room on side, shelter for kitchen, $200. P. E. BURKE, OS 6-5460. A

PICKUP, 1948 International "6", 32,000 miles, all original throughout, excellent rubber, will accept older pickup in trade, and cash, make offer. D. S. CAHILL, DAvenport 6-3073. A

SHOWCASES—One 8'x24"x42" with extension showcase 12'x8'x12", other 24"x42"x8'; kitchen TABLE, drop leaf; metal IRONING BOARD; double BED; 2 SPRINGS and 2 MATTRESSES; small gas HEATER; millinery HAT RACKS, 8 tall and 6 short; must sell; best offer takes. BETTY EMERY, PL 2-1818. A

PUPPIES, boxer, 4 female and 1 male, not registered, available about July 1, $15. O. C. KLATT, OS 5-1307. A

MATTRESS and BOX SPRINGS, Beauty REST, twin beds, mattress and box springs, used 6 months, $90. JEAN SMITH. Reply in writing to Northrop News, Box 2230. A

CAR COOLER, Thermador, used once, A-1 condition, $8; suction cup car top LUGGAGE CARRIER, cheap. F. E. BURFORD, MEnlo 4-5012 after 5 p.m. A

HOUSE with patio, 3-bedroom, near Northrop and bus line, reasonable down payment. OS 6-4627.

(Continued on Page 8)

"Easy, Abdullah boy—you're applying too much power!"

FOR SALE

HOUSETRAILER, 1945 Glider, good condition, reasonable, bunk beds, awning included. EDNA V. WARD, OR 2-0657. A

WASHER, Westinghouse automatic, excellent condition, water saver, glass front, weigh your clothes attachment on door, $70. MARY K. HURD, FR 2-0280. A

CARRYING BASKET for bicycle, like new, $2.50. ROY A. BALLING, OR 1-1943. A

GOLF CLUBS—Spaulding synchronized "Top Flite" pro model, registered, 8 matched stainless steel irons, 2 matched woods, rocket shaft, 1 Spaulding deluxe bag, separate compartments, 1 Bag Boy deluxe golf cart—cost $222 in 1954, will sell all or part, total $149, all like new. R. H. HOLMES, FRontier 5-1528, evenings. A

BUNK BEDS for double deck use, must be good quality; SOFA BED, 3-strand rattan, upholstered in broad floral pattern, makes into double bed and has storage space for bedding, $45; CRIB, full size with innerspring mattress, small CHEST OF DRAWERS, 4 drawers, crib and chest painted same color, $25 for all three items; VIEW CAMERA, 4x5, mahogany, extension bellows with track, one uncut lens board, $35; ENCYCLOPEDIA, Funk & Wagnalls new standard edition, 36 volumes, $45. R. E. KNOWLES, FRontier 2-9365. A

BOXER, 1 year old, ears cropped, shots, leash broke, picked from litter of 5 for obedience training, will sacrifice before June 15. W. SHIFFER, DIckens 2-8505. A

LOT, R-2, 40'x128', with three-car garage, near Century and Avalon, $2750. PL 6-6177. A

TV, 12" Hoffman, blonde table model, $25; G.E. LIGHT METER and case, $20; Compact VACUUM CLEANER and attachments, $12. L. SHELTON, FR 9-3871. A

LUGGAGE RACK for MG, with brackets, $10; REVOLVER, .22 Hi-Standard automatic, like new, with one 4" heavy barrel, one 6" light barrel and two clips, $45; Schwinn BIKE, heavy duty, new tires and bearings, $35; CAMERA, Kodak Medalist II, case, flash, filters, make offer. CARLE R. JACKSON, OS 5-5255. A

FISHING EQUIPMENT, rods, reels, flies, lines, lures, etc., like new, price open; also other miscellaneous sporting and camping equipment, tent, cooking items, knapsacks, etc., all like new, reasonably priced. H. S. BACHRACH. Reply in writing to Northrop News, Box 2229. A

FORD CHASSIS and ENGINE, 1935, fair condition; make offer. R. M. HENDRICKS, MEnlo 4-0766. A

LAND, 2 adjoining lots in Big Bear, 50'x100' total, 4 miles east of Big Bear Village, near clubhouse, electricity and water lines available; prefer cash, can arrange terms if desired, $1100. EUGENE VAUGHN, ME 9-1514. A

WESTERN SADDLE, bridle and blanket, used very little, like new, cost $150, $95. PETE CARLISLE, TO 7-1353. A

WARDROBE TRUNK, durable Hartmann, 40"x21"x21", very good condition, cost $65 new, 15 years old, $15. RICHARD L. OWEN. Reply in writing to Northrop News, Box 2228. A

FORD, 1941 5-passenger coupe, $75; CAMERA, 35mm Exacta, Victor model with 1.9 lens, leather case and tripod. DAVID HOLDEN, OR 7-9020. A

UTILITY TRAILER, two-wheel, 4'x6' steel bed, ball hitch included, 6:00x16" tires, not licensed, $30. ELVIN S. JONES. Reply in writing to Northrop News, Box 2225. A

FOR SALE

CHINCHILLAS, high grade stock, $250 per pair, with families. PAUL LAWSON, OS 6-3142. A

RACING ENGINE, Ford, just rebuilt, 3 carburetor manifold, heads, cam, port and relieved, balanced, and headers; make offer. ED HUSTEDT, REpublic 4-1350. A

FORD, 1947 Deluxe club coupe complete with radio, heater, spot and fog lights, very clean, $325. LARRY WANDRE, FR 2-3575. A

FORD, 1941 2-door sedan, good tires and engine, leatherette upholstering, $150, or best offer. BOBBY COOK, OS 6-5162. A

FORD "A," 1928 sedan, $35. JAMES BYRD, FR 5-6215. A

WILLYS station wagon with overdrive and heater, 1950, $700. J. H. STIEHL, FR 5-3227. A

DUAL MANIFOLD, Edmunds, with twin pots and chrome air filters, gas lines and vacuum line, complete except linkage, fits 1949 to 1953 Ford or Mercury, $35. BILL WATSON, AD 9429. A

POWER MOWER, runs good, $30; BABY BUTLER, good condition, play table top, adjustable heights, $18. L. E. MERRITT, NEwmark 5-1474. A

HOUSE TRAILER, 1953, 14' mobile home, pulled less than 500 miles, will sleep 4, may be seen by appointment, $395. W. CLAUSON. Reply in writing to Northrop News, Box 2226. A

MANGLE, Kenmore, deluxe model, 3 speed, high, low, and press, equipped with light, clothes rack and side drop leaf, nearly new, see to appreciate, $100. ROVENE MOMMER. Reply in writing to Northrop News, Box 2227. A

CAMERA, Argus C2, 35mm and leather case, $25; CHINA, serves 12, set of 93 pieces, like new, $62; MACHINIST TOOLS, planner gauge, $15. PL 5-6610. A

D-H WINDOWS, two 2'6"x4', $3 each; one 4-light sash, 5'x4', $4. PEARL HARDACRE, OS. 5-3423 after 4:30 p.m. A

AIRPLANE, 1946 Swift-125, 70 hours since major overhaul, license to December, 1954, L-F receiver-transmitter, new interior side panels and seat covers, large pneumatic tail wheel, retractable landing light, ship cruises 125-mph, over $2000 invested, need cash, will sell for $1795. ROSS CONNELY, ORegon 8-6548. A

RIFLE, 1886 Winchester, caliber 45-70, new chrome moly 20" barrel, full length magazine, recoil pad, sling, Lyman receiver sight, ammo, reloading tools, powder primers, lead. ARLO H. WILLIAMS, OR. 2-4006. A

COMBINATION RADIO AND RECORD PLAYER, slightly used, 1953 automatic Zenith table model, No. J-665, plays the new 16-speed records in addition to the 3 regular speeds, excellent condition, original cost $106, make offer. S. H. MC KENZIE, FRontier 4-6983. A

HOUSETRAILER, 1947 Palace 27', very good condition, 1954 license, $670. For additional information reply in writing to WALTER J. FRAUF, Northrop News, Box 2234. A

BUICK, 1940 club coupe, perfect body, paint and upholstery, less than 1000 miles since complete engine overhaul, $125. RALPH JAMES. Reply in writing to Northrop News, Box 2233. A

DINING TABLE, oblong, 39" X 58", one leaf 16", 4 chairs, solid ash, frost finish; 2 twin HEADBOARDS and CHEST to match, solid ash, walnut finish, no unreasonable offer refused. JO HARESTAD, FA. 8-0063. A

FOR SALE

CLOTHESLINE POLES, set of 8' steel, $4.50. N. BREYER. Reply in writing to Northrop News, Box 2232. A

LOGAN LATHE, model 920, 11" engine with all turret attachments and additional tooling; DRILL PRESS; 2-heavy duty ASSEMBLY BENCHES and metal CHAIRS, outside contract for small parts available with purchase at no extra cost, must sell — leaving town. OR. 8-9536 after 6 p.m. A

WASHER, Kenmore automatic, bolt-down type; chrome DINETTE with 6 chairs coil SPRING and MATTRESS, army bunk bed; 9' X 13½' CARPET and PAD; make offer, all or part. R. A. KORN, MEnlo 9-5657. A

CHEVROLET, 1951 club coupe, radio and heater, $950 full price or $250 down and payments of approximately $42 per month. W. C. LA TENDRESSE, OS 5-4910 after 5 p.m. A

WANTED TO BUY

MOTORCYCLE in running condition, American make, approximately $100-$200, will pay some down and balance weekly, not to exceed 8 weeks. JAMES HAIZLIP, OSborne 6-3319 after 5 p.m. B

BABY BED, less mattress, in good condition, with spring, will pay according to condition. CHARLES J. WEBER, LUcas 2879. B

CEMENT MIXER, used, 2 cubic foot, with or without power unit. H. W. HENDERSON, EXbrook 6-9082. B

SAXOPHONE, "C" melody, in good condition, price open. A. C. OBRIGHT. Reply in writing to Northrop News, Box 2201. B

TRAILER COACH, in good condition, 15' to 17', reasonable. GEORGE PRESLEY. Reply in writing to Northrop News, Box 2207. B

WELDING REGULATORS, oxy and acetylene, must be in good condition, $15. H. L. VINCENT, EX 6-7536. B

AIR COMPRESSOR TANK, 30 or 40 gallon, capable of holding 65 lbs. pressure. WILLIAM S. NOLLER. Reply in writing to Northrop News, Box 2217. B

PIANO, upright or baby grand. JACK FEIERING, FRontier 4-7948. B

CHEVROLET, 1950 deluxe, must be reasonable, private party only, will consider 1948 Plymouth or Ford, 4-door sedan, with radio and heater, will pay cash to right party. R. M. CRAIG, ORegon 8-8805. B

CAR, '47 or '48 Chevrolet, Plymouth or Dodge, will consider club coupe or sedan, must be in very good condition, a lady's car; TWIN STROLLER, Fold-A-Rolla or any type of twin stroller. TERRY RUTH, NE 1-2973 after 4:15 p.m. B

LOT, level view lot San Fernando Valley, south of Ventura Blvd. R. V. KEEPERS, SUnset 3-5577 evenings, or reply in writing to Northrop News, Box 2223. B

BABY WARDROBE CHEST, prefer white. OR 2-8971. B

UMBRELLA TENT, 9x11, or 9x9 with floor. BILL KURZEKA, NE 5-0710. B

RECORD PLAYER, table top disk, hand crank, spring drive, condition unimportant if operable or repairable, small size and low price most significant consideration and you can have it back after I have mastered the Morse Code. P. F. CHRISTOPHER. Reply in writing to Northrop News, Box 2222. B

BINOCULARS, 7x50 Bausch & Lamb, used but in good condition. DEAN ZES, OS 5-6422. B

HOUSETRAILER, 12' or 14', must be manufactured like new, less than $600 cash. PL 5-6610. B

MARINE ENGINE, 50-100 h.p., under 650 lbs. total weight, also used Marine reverse gear in good condition. H. E. KARISH, EXbrook 7-0134. B

LUGGAGE RACK for '52 MG. BILL WATSON, AD 9429. B

CAROM BOARD and RINGS, reasonable. PHIL REA. Reply in writing to Northrop News, Box 2235. B

FOR TRADE

GAS ENGINE, 1½ h.p. Briggs & Stratton, 4-cycle air-cooled, good condition, will trade for ¾ or 1 h.p., 60-cycle, electric motor, good condition. OS 5-2159. C

RIFLE, special Enfield .30-06, hand inletted and checkered stock, Mashburn trigger, Hurter recoil eliminator, Redfield peep sights, micro. adjust. rear sight, bolt altered to cock-on-open, magazine bullet point protector, trade for very good condition Remington Model 721 or Winchester Model 70 .257 Roberts. R. L. SADD, KImberly 3-7670 (Santa Ana). C

LAND, Palmdale, 2½ acre ranch, will exchange for equity in Los Angeles property. W. F. STUDEWELL, TW 5242. C

MG—T-4, 1953 Mark II, trade for 1951 or 1952 standard car. RUBY PIERCE, VE 8-9326 or AR 8-1908. C

TIES, clean, all styles, knit, silk, etc., in exchange for your ties. CHARLES CARRON, DUnkirk 2-9480. C

EXCHANGE German lessons for lessons in tennis or advanced French. PLeasant 1-1411. C

HOUSE, 5-rooms, 2-bedroom, double garage, 50' X 265', A-1 zoning, GI resale, close to schools and transportation, Lynwood, see to appreciate. Will trade for good home with smaller lot and good location. EDNA DE VARKIN, NE. 8-1413. A

Thermal Barrier Facing Airplane Designers Now

Aircraft industry scientists are concerning many of their efforts with the "thermal barrier" which will confront tomorrow's airplanes, Admiral DeWitt C. Ramsey, president of the Aircraft Industries Association, writes in the current issue of PLANES.

The thermal barrier, Ramsey writes, is "a new and formidable threat to further advances in flight". It is our greatest challenge, he adds.

Ramsey's article called for utmost skill, ingenuity, and vision on the part of the designers of tomorrow's airplanes. He pointed out that the relentless factor of time was pressing, showing as an example the fact that it was seven years after the sound barrier was first pierced that there was a production military airplane which can exceed the speed of sound in routine operations.

Today's airplanes, for military use, must take off in temperatures that exceed 130 degrees Fahrenheit; then fly at altitudes exceeding 40,000 feet, where the temperature is normally minus 65 degrees!

Yet in that span the materials in the airplane must neither contract nor expand to any appreciable degree!

A long-range program of research and development is essential, Ramsey asserts, in order to develop superior quality in airplanes; quality will offset handicap in quantity.

FOR TRADE

PROFESSIONAL GUNSMITH will build custom rifle to your specifications in exchange for machine tools, need screw cutting metal lathe, air compressor, polishing equipment, etc. BUZ SAWYER, KI. 3-8939. C

RIFLE, Japanese .25 caliber, converted to .257 Roberts, trade for double barrel shotgun. PETE CARLISLE, TO. 7-1353. C

OLDSMOBILE, 1941 Hydra-Matic 2-door, good engine, interior new, $165, 2½ ton CHAIN BLOCKS, like new, $50; 1940 DODGE 4-door, good transporation, $95, will trade for 20' trailer or good heavy rifle or .22 automatic. C. M. HALE, FA. 8-3796. C

FOR SALE OR TRADE

DRAFTING MACHINE, detailer, like new, will sell or trade for good used 35mm camera. RAY E. WALLACE, FRontier 5-3737. M

FRYRITE deep fat fryer, best offer, or will trade for Sunbeam or equally good mixer, Fryrite used twice, looks like new, originally cost $29.95. H. R. SMITH, PL 6-2661. M

HOUSETRAILER, Plymouth, sleeps 4, 2 rooms, $300, or will trade for teardrop trailer. E. ADAMS. Reply in writing to Northrop News, Box 2206. M

CHEVROLET, 1950, A-1 condition, very clean, loaded with extras, see to appreciate, submit offer. R. J. NICKELSON, NEwmark 8-1246 evenings. M

PLYMOUTH, 1942 4-door, or 1949 BUICK 2-door sedanette, make offer, consider trade on real estate. C. L. FINCHER. Reply in writing to Northrop News, Box 2211. M

CADILLAC, 1948 4-door, Hydra-Matic, A-1 condition, will take 1951 Hudson Hornet, must be clean, will pay difference. H. WILLIFORD, OR 7-2914. M

CHRYSLER Royal, '37, needs paint, mechanically A-1, 4-door sedan with overdrive, good tires, $50 cash or trade. ROY RITTMILLER, OR 7-8697. M

HOUSE on large lot, 2-bedroom, $750 down, $6500 total; would take late model car in trade. MARIE VAIL, FR 9-2655. M

DIAMOND RING, man's, 14 karat yellow gold, white a one-karat and 36-point diamond mounted in a white gold setting; beautiful, unusual design, appraised value $1350, will sacrifice for $675, or will trade for equity in late model automobile. DOUGLASS HANSEN, PLymouth 5-6506. M

MORRIS MINOR, '52 2-door, 8000 miles, cash, trade or terms, $795 full price. A. A. HOCK, ME 4-0395. M

BUICK sedanette, custom '50, new mandarin paint, lowered front and rear, w/w, custom grille, upholstery like new, custom body work, radio and heater, standard transmission, '50 Cadillac hubs, good engine, drafted and must sell equity cheap, $300 for $465 equity or trade equity for clean '46-'47 car. MIKE GALLEGOS, JR., MU 3462 after 5 p.m. M

PICKUP, 1948, will sell for cash or exchange for older model. D. S. CAHILL, DA. 6-3076. M

REFRIGERATOR, 1947 Philco, A-1 condition, 6 cu. ft., will trade for pickup truck. D. L. DAWSON, OS. 6-2006. M

FREE

KITTENS, 7 weeks old, 4 males, 2 females. LAURA A. WILLIAMS, FA 8-4938. D

KITTENS, five, pick out the kitten you want. BETTIE J. BATE. Reply in writing to Northrop News, Box 2209. D

KITTENS, three gold Persians, will be available in June. FRANCES PIEPER, MEtcalf 3-0088. D

DOG, male, 5 months old, ¾ German Shepherd, ¼ Collie, to a good home. C. E. AGAJANIAN, L.B. 3-45176. D

DOG, Shepherd. MIKE CHESTER, WE 8-1865. D

RENTALS OFFERED

APARTMENT, 3-room, with garage and washroom, backyard, tots okay, near Imperial Highway, $55 month. PL 6-6177. E

SHARE APARTMENT, 2 young men to share 2-bedroom apartment, twin beds, Westchester district. DON J. FIEDLER. Reply in writing to Northrop News, Box 2204. E

HOUSE, one-bedroom, unfurnished, large rooms, near Northrop, $70 per month, utilities furnished, adults only. OSborne 6-8250. E

SLEEPING ROOM for gentleman, 3½ blocks to Northrop, night worker preferred. HAROLD MITCHELL. Reply in writing to Northrop News, Box 2203. E

DOUBLE, available June 1, 1-bedroom, with garage, no objection to small child, $65 per month, plus utilities. D. A. YOUNGERS, WE 3-3983 or PL 8-9191. E

ROOM for man, private entrance, $7 per week. IVEN C. BLUM. Reply in writing to Northrop News, Box 2202. E

ROOM for man, within walking distance of plant, available May 30. F. MURRAY. Reply in writing to Northrop News, Box 2219. E

HOUSE, 3-bedroom, nearly new, fenced yard, garage, lawns, hardwood floors, North Redondo Beach. Call PL 3-3533 after 5 p.m., $90 month. ROBERT J. ZOLNAY. E

APARTMENT, 1-bedroom, furnished, with garage, enclosed yard, near Manchester and Figueroa, near schools, transportation and stores, $70 a month. HELEN SILVA, PL 5-7431. E

RENTALS WANTED

ROOM for light housekeeping, within 20 minutes walking distance of Hawthorne plant, to $45 per month. DAVID B. TULLIS. Reply in writing to Northrop News, Box 2215. F

HOUSE, fenced yard, partly furnished, have child and pet, prefer Manhattan or Redondo Beach, not over $50. INEZ WELLS, REpublic 2-5591. F

GARAGE, single or double, for storage only. C. J. WATSON, OR 7-9843. F

HOUSE, by June 15 or earlier, 3-bedroom or larger, guarantee proper care of house and yard, references. E. M. SKINNER, AX 1-3882. F

CHILD CARE OFFERED

CHILD CARE—Sunrise day nursery, licensed, ages 2 to 10, days, swing shift, fenced play yard, hot lunches, snacks and naps, close to all aircraft plants; register now for school vocation. For further information call OSborne 6-1786. G

CHILD CARE—Licensed home for children, 2 to 10 years, good food, fenced yard, near all aircraft plants and Eucalyptus school. Call OSborne 6-6566. G

CHILD CARE WANTED

WANTED, nice lady who works day shift, loves children and would like to take care of them while the mother works swing shift; I would pay rent and utilities, all that would be necessary is to buy your own food. MARILYN ANDERSON. Reply in writing to Northrop News, Box 2224. H

PERSONALS

RIDE WANTED to Pittsburgh, Pennsylvania or close vicinity, approximately July 20, taking two children, ages 8 and 11, will share expenses. ANNE D. UNKS. Reply in writing to Northrop News, Box 2216. L

LADY TO SHARE my home, private bedroom, prefer middle-aged lady who works days or is unemployed, kitchen privileges, reasonable to right party. DOROTHY W. JURS. Reply in writing to Northrop News, Box 2221. L

Norcrafters Will Miss Chief Mike - Fire Laddie

Missing last month from the Northrop scene for the the first time in over thirteen years was the familiar figure of Fire Chief Michael J. Belitz, known to countless Norcrafters as "Mike".

Mike passed away on Sunday, May 16, after suffering a heart attack. He would have been 65 on August 20.

Working quietly but efficiently with the fire department that was his pride and joy, Mike for over a decade performed fire prevention duties which were of inestimable value to the company, and trained the department to an efficiency ranking with the best.

Mike was born in Omaha, Nebraska, to Polish parents who had come to the United States back in 1881. He attended the Immaculate Conception school in Omaha, and when he was 19, joined the Omaha Fire Department.

He retired in 1933, having attained the rank of senior captain in the force, and in 1939 moved to California.

The record shows that Mike first came to Northrop in March, 1941, when he was employed as a guard on the night shift. But his talents for fire-fighting, developed over the previous quarter-century, were soon recognized in his transfer to the fireman classification. In December, 1942, he became chief of Northrop's Fire department.

At the time of his death, Mike held the rank of captain, as well as the title of chief. Like many old timers among Norcrafters, he was proud, too, of his attendance record, which showed scarcely a blot for 13 years.

Survivors include his wife, Bernyce; a brother, Joseph; a daughter, Mrs. Gertrude Bocock; and son Ted, Norcrafter in Timekeeping.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information in activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB
Meet at the NRC Clubhouse every Thursday evening at 7:30 p.m.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BOAT CLUB
Elmer Chiodo, commissioner
Next meeting Monday, July 12, 7:30 p.m., NRC Clubhouse.

BOWLING (day)
Chuck Carson, commissioner

BOWLING (night)
Tony Cardozo, commissioner
Summer leagues now in progress.

BRIDGE CLUB
Walt Darby, acting commissioner
Meet 2nd and 4th Tuesday of month at NRC Clubhouse. Next meeting June 8.

CAMERA CLUB (day)
George Fuller, commissioner
Meet every other Friday evening NRC Clubhouse, 7:30 p.m. Next meeting June 11.

CAMERA CLUB (night)
Adam Slusarz, commissioner
Meet every other Saturday evening, NRC Clubhouse. Next Meeting June 12, 7:30 p.m.

GARDEN CLUB
Burt Binge, commissioner
Plant Three group meets Wednesdays at 12:15 p.m., Photo Conference Rm.

GEM AND MINERAL CLUB
Art Westermann, acting commissioner
Meet fourth Wednesday of each month at the NRC Clubhouse. Next meeting, June 23, 7:30 p.m.

GOLF CLUB (day)
Jim Milne, commissioner
Twilight leagues at Western Ave. and Alondra Park Golf Course each evening Monday through Thursday.

GUN CLUB
Dick Booth, commissioner
Meet every other Tuesday, 7:30 p.m., NRC Clubhouse. Next meeting June 8.

PHILATELIC CLUB
George Borton, commissioner
Philatelic and Numismatic combined club meets 2nd and 4th Monday each month. Next meeting June 14, NRC Clubhouse, 7:30 p.m.

RADIO CLUB
First formative meeting — Tuesday, June 15, 7:30 p.m., NRC Clubhouse Annex.

RIDING CLUB
Cliff Snudden, commissioner
Next ride, breakfast ride, Sun., June 6, 8:00 a.m., Circle Bar Ranch. Reservations must be in at PA&S by Thursday, June 3.

SALT WATER FISHING (day)
Bill Dean, commissioner
Boats will run June 12, July 17, Aug. 14, Sept. 4. Fishing license can be acquired at PA&S.

SALT WATER FISHING (night)
Chuck Bija, commissioner
Boats will run June 13, July 18, August 15, and September 5. Fishing license can be acquired at PA&S.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next shoot June 12. Members interested in reloading ammunition meet at the NRC Clubhouse, Monday evenings.

SKIN DIVING
Gordon Grant, commissioner
Next meeting will be June 21, NRC Clubhouse Board Room.

SOFTBALL (day)
Tom White, commissioner
League play under way Monday Tuesday & Thursday, Rosecrans Playground; Wednesday and Friday, St. Andrews Playground. Games begin: 6:00, 7:30 and 9:00 p.m.

SOFTBALL (night)
Paul Crowley, commissioner
League play in progress daily, Rosecrans Playground. 10:30 a.m.; Monday and Tuesday at Sportsman Park (Western at Centruy). All games—10:30 a.m.

SPORT CAR
Doug Hugill, commissioner
Meet second Thursday each month, NRC Clubhouse. Next meeting June 10, 7:30.

SQUARE DANCING
Fred Brant, commissioner
Meet at Swimms Barn, 15016 Daphne St., Gardena, from 7:00 to 10:00 p.m. Meets 1st, 2nd, 4th and 5th Sundays. Pot Luck Dinner before dance on Sunday, June 13.

SURF FISHING
Ralph Schamp, commissioner
Meet NRC Clubhouse, 7:30 p.m., 1st Tuesday. Next meeting July 6.

SWIMMING
Leuzinger Gym open Wednesday and Friday afternoons, 4:30-6:30, beginning June 16. No admission charge.

TOASTMASTERS 212 (day)
Ernie Boren, representative
Meet every Thursday eve., 6:30 p.m., Western Club, Gardena.

TOASTMASTERS 1398 (night)
Ned Reese, representative
Meet every Thursday, 12:30 p.m., at Bill's Steakhouse on Crenshaw Blvd., just north of Manchester.

TROPICAL FISH CLUB
Orval Coley, commissioner
Meet fourth Tuesday of month, NRC Clubhouse. Next meeting June 22, 7:30 p.m.

Night Diamond Combo

OPENING DAY for the NRC night-shift Softball league had John Breneman, assistant factory manager, nights, tossing out the first ball to start the game between Departments 5589 and 9340 teams. Pictured above, standing from left: Al Palumbo, John Murphy, B. C. Burnel, James Ratley, Lloyd Trollinger, William Pike, Frank Morgenson, Joe Rodriquez, manager, Harold Felton, Breneman, Larry Baird, PA&S office, Paul Crowley, Softball commissioner, nights, Gordon Smith, Al Hochtman, Andy Nadeau, Owen McCaffrey, Robert Heath, Ed Parr, umpire. Kneeling, left: Bob Hepp, Bob Runyon, Dick Graham, Jimmy Reiss, Bill Cox, Billy Black, LeRoy Schwartz, Richard Yamashino, Barney Dana, John Mihelich, manager. Game was won by 5589 team, 5-2. Night league has 14 teams.

Softball Club "Smoker" Draws Crowd, Laughs

Anaheim male Norcrafters met at their NRC Clubhouse recently to watch movies of the 1953 World Series, and to hear baseball notables.

Featured guests were Rosey Gilhausen, ex-Norcrafter, and Don Lindberg, both scouts for the Pittsburgh Pirates, and presently giving unofficial assist to Hollywood Stars and Manager Bobby Bragan.

Memories rose to the fore when, after movie, Rosey Gilhausen waxed warm and hilarious on olden days at Northrop, good times with Norcrafters, and recalled anecdotes from his file of baseball scouting experiences.

Don Lindberg chipped in after Rosey, broadening the scope of the "bull session" along the lines of scouting.

Many tales were told of specific Norcrafters in and out of the audience at hand. One such bit of news dropped, surprising to many, was fact that Bob McNamara, Accounting and Finance head, has in his background playing days with the Philadelphia Athletics and the Hollywood Stars.

Square Jets To Watch "Tornadoes"

The Texas Tornadoes, noted square dance group, will be featured at the next meeting of the NRC Square Dance Club.

Meeting will be a pot-luck dinner on June 13, starting at 5:00 p.m. in Schwinn's Barn, 15016 Daphne Street, Gardena. Dancing will start at 7:00 p.m.

The exhibition by the Texas Tornadoes will be the highlight of the evening, according to Club commissioner Fred Brant, and all square dancers are invited to join in the fun.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Dorothy Hodgson, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BALLET CLASS
Lessons scheduled every Thursday at 8:00 p.m., NRC Clubhouse. Instruction provided at no charge.

BOWLING
League now in progress at Hawthorne Bowl, Tuesday, 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Monthly dinner meetings.

FLOWER CLUB
Rosalie Geesaman, acting commissioner
Meet second Tuesday of each month, NRC Clubhouse, 7:30 p.m. Next meeting June 8.

GOLF CLUB
Golf lessons now in progress every Tuesday, 7:00-8:00 p.m., Culver City Golf Course, Jefferson at Sepulveda. Lessons are $1.00 plus $.40 for bucket of balls. Golf clubs furnished free.

INTERIOR DECORATION
Meet each Thursday, NRC Clubhouse, 7:30 p.m. Instruction provided.

SOFTBALL
Donna Avazian, commissioner
Practice games now in progress at Baldwin Park, 5401 Highlight Place, 7:30 to 9:00 p.m.

KNITTING CLUB
Nina Shannon, acting commissioner
Meet Tuesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SENIOR GIRL SCOUT TROOP (MARINERS)
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Peggy Barber, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 to 6:30 p.m. Baby sitting provided if necessary.

NRC Foursome

FAMILY PORTRAIT—. New additions to NRC commissioners "family" are, from left: Boyd Hyatt, NRC Surf Fishing, nights; Nina Shannon, NRC Knitting Club; Paul Crowley, NRC night-shift Softball; and Donna Avazian, NRC Women's Softball. All four are enthusiastic boosters of their particular activities. Boyd announces that members are welcome in the Surf Fishing Club, and future plans include many outings. Nina says that the Knitting Club plans to exhibit works in many fairs in the near future, and new members are invited. Both Paul and Donna anticipate an exciting softball season, and invite all Norcrafters out to cheer their favorite teams. See NRC Good Time Table.

TMs Impress Visitor To Dinner Meet

By JOE CARVER
President
Northrop Recreation Club

Unaccustomed as I am to public speaking, I decided to see for myself what it is that keeps the NRC Toastmasters—and Toastmistress — clubs on their feet. So I attended a Toastmaster dinner-meeting recently and came away impressed and interested.

This activity is more than a club — it is an education. The training received by faithful attendance and participation enables even the most taciturn to speak effectively before all groups both socially and in business meetings. It trains the participant in clear and constructive thinking and helps to improve both speech and delivery.

Toastmaster and Toastmistress clubs are to be found all through the United States, Canada, Great Britain, South Africa, Alaska, Philippines, and Cuba. Toastmasters International was incorporated in 1932 as a non-profit, non-commercial corporation.

In general, the goal of Toastmasters and Toastmistresses is to improve themselves in the arts of speech and leadership as a means of increasing their usefulness in business, social and civic relationships.

In the short time since the NRC Toastmasters and Toastmistress clubs have been chartered — newest is Ontario's Toastmasters — membership has grown by leaps and bounds. TM clubs are limited to 30 members, plus a few associate members. However, there are a few openings in all clubs and new members are invited. Opportunity knocks —.

RADIO OPERATORS FORM NEW CLUB UNDER NRC FLAG

Newest club on the NRC roster is the Radio Club. In the formative stage, the first club meeting will be held June 15 at 7:30 p.m. in the NRC Clubhouse annex.

Future meetings will be held the first and third Tuesday of each month.

Program for the first meeting will include a featured speaker and a movie on the part "ham" radio operators will play in the Los Angeles Area Civil Defense picture.

All Norcrafters interested in any phase of radio operation are invited. This includes all classes of radio operators — amateur, general, novice, or technician —, all who are interested in electronics, transistor, audio, RF, and TV phases of radio, and those interested in code work.

Operators with mobile stations are especially invited.

Additional information is available at Personnel Activities and Services, extension 2784.

THE Northrop Scene BY DAY AND NIGHT

Guests of the Stars

ANAHEIM SOFTBALL Norcrafters of late have been hobnobbing with the Stars of Hollywood, as shown above when Bill Burgart, Anaheim NRC v-p, second from left, and Al Peralta, Softball comish, fourth, were guests of Star hardballers. From left, Pitcher Mel Queen; Manager Bobby Bragan, center; Catcher Ed Malone, below; and Rosey Gilhausen, popular Pittsburgh Pirate scout presently giving assist to Bragan's diamond combo. Burgart and Peralta were hosted by Stars following Anaheim "smoker" (see story, page 9). Queen, Malone and Gilhausen are all ex-Northrop Fielders. Anaheim inter-departmental league has six teams.

Open House in Antelope Valley

CHEERY GOOD MORNING of Palmdale cafeteria Norcrafters greeted guests at "open house breakfast". They are—from left, front row: Larry Ventura, Hawthorne Plant 3; Pearl Pearson; Ann Thompson, cashier; Roberta Pingry. Back row: Robert N. Anderson, assistant; John W. Korn, chef-manager. Menu—ham, bacon; wheat cakes; eggs Escoffier.

Blueprint Reading Graduates

OVERWHELMING RESPONSE to blueprint reading classes given by Industrial Training resulted in first graduating class pictured above. Seated left to right are: Cruz Aldaco, 5620; O. S. Jaramillo, 5411; Carlton Fielder and Walter Kierath, 5585; Donna Baldini, 5231; Thelma Chambers, 5352; Manual Meyer, 5585; Wendell E. Lowe, 5114; and Philip Keller, 5503. Back row, Wayne Spearman, instructor; Carl Jones, 5544; Fred Jones, 5508; Jack Bishop, 5232; Warren MacArthur, 5223; Bobby Cook, 5544; Dennis Gish and Herb Crist, 5233; Don Tarr, 5544; John Jones, 5538; Dale Adkinson, 5221; Don Lowe, 5524; Coby Bounds, 5508; and J. Q. Tye, instructor, Industrial Training department.

GILDED POCKET PIECE, commemorating "Power for Peace" Armed Forces Day theme, is presented to Congressman Edgar W. Hiestand by Tom McCracken, Palmdale base administrator, and Mrs. McCracken as Hiestand arrives for breakfast meeting. Ann Kellogg, hostess, views presentation, as does Larry Donoghue, Industrial Relations, rear. Hiestand, Col. C. W. Tennant, K. P. Bowen addressed group.

ANTICIPATING DIPLOMAS, night Norcrafters flash expectant smiles on completion of first blueprint reading course under jurisdiction of Industrial Training instructors. Seated from left are: Margaret Lennon, 5232; Wallace Twedt, 5520; George Hykill, 5620, Ludger Mercier and Roy Fiorelli, 7210; and Luis Casaccin, 5534. Second row: Donald Shoemaker, 7210; Joe Hutchins and Elmer Kinkier, 5585; F. E. Calvert, 5544; Egan Sandhoefner, 7210; F. G. Nicolay, 6100; W. G. Dunnell, 5544; and Leroy Dick, 7210. Third row: Hank Solak, instructor; L. M. Larrentree, section head; R. L. Robinson, 5534; George Huntington, instructor; and William Monson, 5437. Classes were immediately over-subscribed.

AIR-MINDED YOUNGSTER views F-89D rocket armament at firsthand and gets detailed information from Bill Wible, assistant foreman, Flight Operations, as Norcrafter John Roe and unidentified visitor listen to dialogue. Thousands of visitors filed past the many instructive open exhibits.

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, June 16, 1954

Buy U. S. Bonds
VIA
Payroll Deduction

NORTHROP SLED HEADLINES AIR FORCE SAFETY STUDIES

COLONEL STAPP CHECKS BAILOUTS

Lieutenant Colonel John P. Stapp, U. S. Air Force aero-medical research scientist, has travelled 421 miles per hour on a Northrop-built rocket-propelled railway sled to set a new ground speed record, the Air Force has announced.

With the 421 mile per hour mark, Colonel Stapp has become "the fastest man on earth". He is believed to have eclipsed any previous speed records for land travel. (John Cobb travelled 403.135 miles per hour in a specially-built automobile on the Bonneville, Utah, salt flats, 1947). The speed mark was established on the first manned run of the sled. Eventually speeds up to 800 miles per hour are expected to be attained.

Colonel Stapp—a modest, self-effacing man, who considers his project more important than the personalities assigned to it—disclosed he had set the new land speed mark as an incidental result of his studies of jet pilot survival methods.

The record was made in a run on the 3500-foot research track at Holloman Air Development Center with "the world's fastest land passenger vehicle"—a two-unit rocket sled built for the Air Research and Development Command by Northrop. Colonel Stapp, chief of the aero medical field laboratory at Holloman Air Development Center, is assigned to ARDC.

The purpose of Colonel Stapp's project is to find means for insuring the safety of pilots who find it necessary to bail out of aircraft at supersonic speeds.

The run was made for the purpose of testing the equipment and a special safety harness Colonel Stapp wore. No attention was given to a possible speed mark, and not until electronically-obtained data was reduced mathematically several days later was the actual speed known.

Two of the factors involved in high speed bailouts are air blast effects and abrupt decelerations. Studies to date indicate the need for face shields or other devices to protect the pilot's eyes, face and lungs from the tremendous air blast forces. Calculations indicate that a pilot

(Continued on Page 2)

Community Invited to Open House

Plans for the Hawthorne Open House on July 10 — when Northrop plays host to the community — were progressing swiftly last week following a meeting of the open house committee, representing the various divisions and outlying facilities.

Preliminary requirements for display booths were to be screened early this week; there will be at least 10 booths containing exhibits. Other displays will be posted along the Plant One tour route.

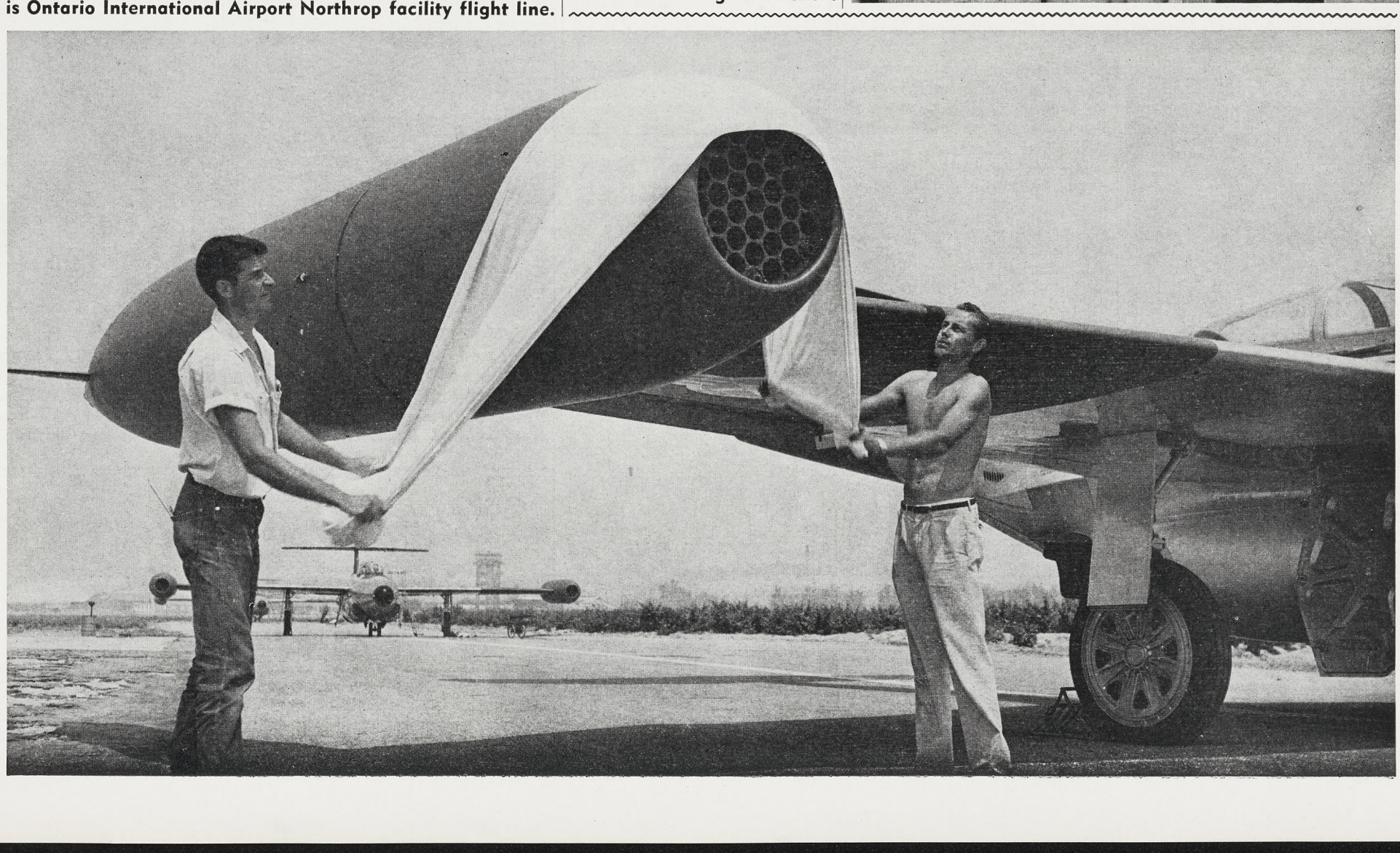
A carnival attraction is being planned for junior Norcrafters and other young visitors by the NRC and PA&S in the form of

(Continued on Page 3)

M-C Newest Member

GREETINGS and Management Club membership card are extended to Whitley C. Collins, Northrop Aircraft chief executive officer, by Jack Akin, Management Club president, at bi-monthly dinner held at Rodger Young Auditorium recently. Collins addressed the assembled members, as did John Myers, Northrop vice-president, who conducted a question and answer period. Feature of the evening was a series of films on Los Angeles Rams pro football games.

HAPPY SMILE wreathes face of Dave Philbrick, supervisor in Guidance, Engineering, as he receives football autographed by Los Angeles Rams team members at recent Management Club dinner. Pigskin was presented by Hampton "Hamp" Pool, Rams coach, left, aided by "Tank" Younger, star Rams fullback. Tank also works at Northrop — Assembly Stores. Philbrick has football enshrined on mantle in his home where it is preserved for "future generations".



CONDITION — BRAND NEW! Final polishing with outsize shine cloth and F-89D is ready for delivery to Alaska. Ontario Flight Service Norcrafters Oliver Collins and Allan Hardinge impart final good housekeeping touch as aircraft is checked out to Air Force pilots for fly-away. Clean airplanes — outside and in — make for more hours in the air, increased operational efficiency, combat reliability. Scene is Ontario International Airport Northrop facility flight line.

Speed For Safety

READY — Colonel Stapp is strapped to seat for start of world-record ground speed rocket sled safety-test run.

ZOOM!—Abrupt start of run throws Stapp's head against seat-back; first signs of strain appear on his face.

WHOOSH!—Added rocket power goes into play to accelerate sled at almost fantastically high rate of speed.

THE BRAKES!—Deceleration by water brakes begins to jerk sled to halt well within length of 3500-foot track.

SCREECHING halt—and 22 G's pressure is reflected in the contorted face of passenger, who has withstood 45.

CD Warning System Test On Schedule

Dress rehearsal and a complete test of Civil Defense warning systems will be held at Northrop on all shifts during the week of 21 June 1954, according to Jerry Baker, Civil Defense coordinator.

No dispersal of Norcrafters from work areas will be held, but all persons in each Civil Defense warden section will stop work and meet with their respective wardens.

All wardens and other CD volunteers will wear their identifying arm bands at work until the test ends.

Tests will not be plant-wide simultaneously, but will be conducted as follows:

First shift tests at 8:52 a.m.; night shift, 6:42 p.m.; and morning shift, 3:12 a.m.

Plant One and Four tests will occur June 21; Plant Two, June 22; Plant Three, June 23; and El Segundo buildings, June 24.

Tests will last two minutes, after which the "all clear" signal will sound.

Rocket Sled

(Continued from Page 1)

ejected from an airplane at 1800 miles per hour would experience abrupt and possible fatal decelerations.

The Northrop-built rocket sled has been designed to duplicate these conditions. One configuration of the sled embodies a collapsing windshield that exposes the volunteer to the air blast created as it rushes down the track. A unique water brake, developed by Northrop in its pioneering rocket sled studies, applies decelerative forces under controlled conditions. A tumbling seat to rotate the subject also has been built for the sled and will be used in advanced phases of the studies. Tests at a speed of 800 miles per hour would simulate a bailout at approximately 1800 miles per hour at 40,000 feet.

The project is a continuing one, and several months or years will be required to explore all phases of human tolerances to high speed bailouts.

The present project continues studies made by Colonel Stapp at Edwards Air Force Base with a "human decelerator" rocket sled built and operated for the Air Force by Northrop. In these studies, Colonel Stapp used himself repeatedly as a volunteer and established man's ability to withstand decelerations up to 45 G's.

He expresses the opinion humans can survive forces up to 100 G's for extremely brief intervals, but they likely would sustain non-fatal injuries.

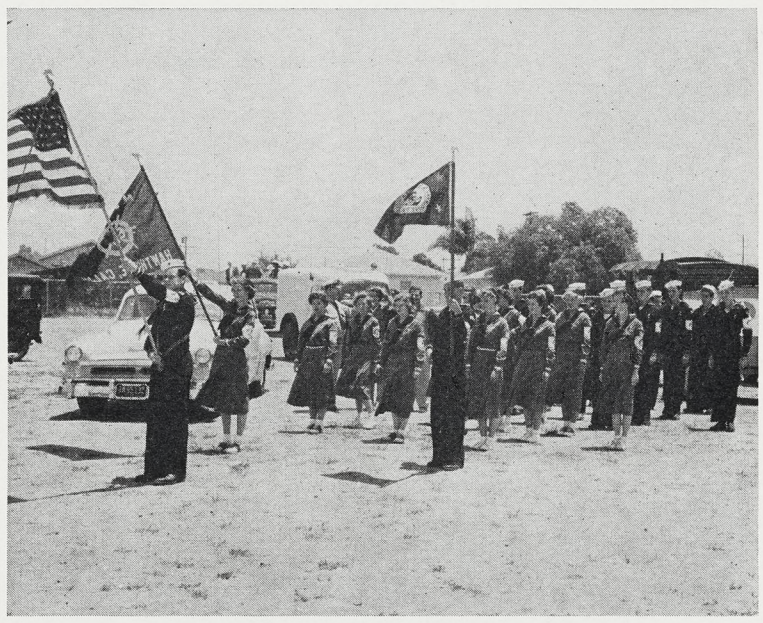
Northrop has pioneered in design and construction of high velocity, rocket-propelled track vehicles as an adjunct to its design and manufacture of high performance military aircraft and guided missiles.

Northrop phases of the Holloman high speed sled research project have been directed by Ed C. Denzin, currently assigned to the company's B-62 Snark pilotless bomber program, and George Nichols, associated projects engineer.

Norcrafters Parade with C-D Forces

NORTHROP'S CONTRIBUTION to recent mile-long Civil Defense equipment parade was above cavalcade of defense aids. The items included medical, rescue, radiological, fire, communication, and welfare units. Other major aircraft companies also had displays in the parade and all of the equipment was demonstrated publicly afterward at Lennox Civic Center.

RADIOLOGICAL MONITORING UNIT entered by Northrop was manned by specialists—from left, standing, Verne Lundquist and Walt Fischer, Safety Engineering; Ed Binder, Performance Reports; Sophie Felt, Civil Defense; Lee Johnson (with Geiger counter), Safety Engineer; L. T. Burton, Plant Protection. Seated, Mrs. Lee (Anita) Johnson; Chuck Carlson, Key Control. Driver: Frank Spidell, Transportation; Phillip Johnson. (For other CD news, see story, this page).



COLORS HELD HIGH—. Girl Mariners and Sea Scouts, sponsored by NRC, prepare to join C-D parade. Young folk bore significant part of program, will act in future in vital communications services of Civil Defense activities. Defense officials of Hawthorne, Torrance, Inglewood, Los Angeles and Los Angeles County participated in parade.

GMW–BBSF TO SKIP JULY 14

The Northrop News which ordinarily would appear on July 14 is being moved up to July 10, date of the Hawthorne open house celebration. Since it is a souvenir 4-color issue, it will not contain the usual GMW and BBSF ad pages.

Norcrafters who know in advance that they will be seeking rides or riders during the first three weeks in July are requested to turn in their GMW ads in time for the June 30 issue. Deadline is June 24.

Deadline for BBSF classifieds for the June 30 issue is midnight, June 23. Ads which come into the News Office after that time will be held for publication in the July 28 issue.

The customary classified pages will re-appear in the issue of July 28.

NRC SPORTS CAR CLUB SCHEDULES "FAMILY RALLY"

A family style rally will be the next event for NRC Sports Car Club members. Slated for Sunday, June 27, participants will leave at 9:00 a.m. from the rear parking lot of the Clock restaurant at the junction of Imperial Highway and Firestone Boulevard.

Termination point of the rally will be Irvine Park, Orange County.

Members are invited to bring the family and picnic lunches. The children will enjoy the zoo, boat pond, kids' fishing pool, kiddie land, and the refreshment stands, says Doug Hugill, Club commissioner.

The route is paved all the way and no maps, computers, or stop watches are needed, according to Doug. The rally is designed as an equalizer between the novice and the experienced driver. Additional information is available at PA&S, extension 2784.

Northrop News

Vol. 12 Northrop Field, Hawthorne, Calif. No. 23

Published every other Wednesday by
INDUSTRIAL RELATIONS DIVISION, NORTHROP AIRCRAFT, INC.
JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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Down Range . . . . . .

Honorable Mention award for 1953 Northrop Annual Report has been made by Lithographers' National Association, Inc., in 1954 National Offset-Lithography Competition to Northrop and the Jeffries Banknote Company . . . Sharing in honor are Advertising Designers (Kenneth Parkhurst, artist) and Public Relations division (Al Cline, director).

Recent callers to Hawthorne plant include some of top provisioning personnel from Air Force, including: — Lieutenant Colonel Ernest Webb, director of maintenance, HQ, Northeast Air Command; Major Ivan Dean, aircraft maintenance, Alaskan Air Command; Wilbur Franklin, Technical Services, Hill AFB . . .

Complimentary mention in Daily Mirror sports column of Maxwell Stiles went to Scorpion-builder Ernest Ramirez, Final Assembly, for accurate forecast of recent city high school track meet results . . . Ernie prophesied nine winners out of eleven.

Music lovers among Norcrafters may now listen to their own Northrop Concerto Hour over radio station KFAC (1330) each Saturday evening between 7:00 and 8:00 o'clock—though programs will be directed toward recruitment of new personnel much enjoyment may be found in the presentation of fine music which has been arranged by the Public Relations division.

Camera hobby of Don Flamm, Public Relations, recently paid off in both cash and honors when a marine study in black and white entered by Flamm in Compton Herald American photo contest won first prize and twenty-five dollars.

John W. "Jack" Doedli, supervisor, Contract Status Control, was recently honored by commendation at the May all-membership dinner of the National Association of Cost Accountants. His work as associate director of the organization's local chapter resulted in return of the Stevenson Trophy, annual award for the nation's outstanding chapter, to the Los Angeles group.

Open House

(Continued from Page 1)

a "Funland" at the end of the route.

A detailed account of the open house plans will highlight the Northrop News on June 30, including the comments of Hawthorne city officials, who will be guests at the open house.

Co-chairmen of the open house committee are Al Cline, director of Public Relations, and John B. Clark, director of Industrial Relations.

Rio Hondo Saturday Ride Set

A moonlight horseback ride along the Rio Hondo trail, followed by wieners around the corral campfire, is the inviting evening scheduled by the NRC Riding Club for Saturday, June 19.

As announced by Cliff Snudden, commissioner, horseback and outing enthusiasts will meet at the Circle Bar Ranch, 5543 East Imperial Highway, at 8:00 p.m. Horses will be rented at $1.25 per hour, and all food charges will be covered for 75¢ . . . money to be collected at the ranch.

Reservations can be made via Personnel Activities and Services, station 2784.

LADY DECORATORS SIGN INSTRUCTOR FOR NEXT MEET

Interior decorators are looking forward to Thursday, June 17, when a new series of lecture-demonstrations on home furnishing and decoration gets underway at the NRC Clubhouse.

Using decorative materials and color slides as aids, Mrs. Barbara Axelrod of the University of California will present the series of classes each Thursday evening for 12 sessions.

Registration fee is $1.50 per person. Enrollment is limited. Norcrafters should register immediately at Personnel Activities and Services, either Plant 1 or Plant 3.

Mat Con says

During the month of April there were turned in almost 400 suggestions. They were from all over the plants, showing that opportunity for Suggestion Awards is everywhere . . .

Meeting Of Desert M C Next Friday

Second dinner meeting of the combined Palmdale-Edwards Management Club will take place Friday evening, June 18, at Aleck's Valley Club, 44715 Sierra Highway, Lancaster, according to club vice-president Louis R. Weltz, of the Edwards facility.

Principal speaker of the evening will be John B. Clark, director of Industrial Relations.

Newly-elected officers beside Weltz, who will be installed at the meeting, are: Clarence Poltowicz, treasurer, Edwards; Ray Hawkes, sergeant-at-arms, Palmdale; and E. L. Clipperton, secretary, Palmdale.

Board of control members will be Lou Drazin and Paul Nippert, of Edwards; C. A. "Chuck" Myler and N. C. "Norm" Hearne, Palmdale.

Seventy members from the Antelope Valley facilities are expected, plus guest members from other plants. Reservations for the dinner meeting may be made by contacting "Chuck" Myler, Palmdale, or Larry Donoghue, Palmdale Industrial Relations, arrangements chairman for the forthcoming meeting.

Thompson Tot

Born to Rupert Thompson, Timekeeping, and wife Babs—son Robert Elliott on 22 May 1954 . . . weight, 7 pounds 12 ounces . . . at Doctor's hospital.

Delmont Olesen

Born to B. D. Olesen, MTF Guidance & Electronics, and wife Donna Mae — son Delmont Olesen, on 15 May 1954 . . . time, 9:00 p.m. . . . weight, 8 pounds 14 ounces . . . at Brevard Memorial hospital, Melbourne, Florida.

Junior Oed

Born to John William Oed, MTF Industrial Relations, and wife Helen — son John William, jr., on 14 May 1954 . . . time, 11:00 a.m. . . . weight, 6 pounds 13 ounces . . . at Brevard Memorial hospital, Melbourne, Florida.

Jeannie's Kim

Born to Bill Doran, formerly of Medical, and wife Jean, Northrop News — daughter Kimberly Jean on 2 June 1954 . . . time, 7:25 a.m. . . . weight 7 pounds 6 ounces . . . at Santa Monica hospital . . . Kim's maternal grandfather is Enoch Taylor, Manufacturing Control . . . uncle is Bob Taylor, Final Assembly.

Ryan's Boy

Born to Charles N. Ryan, Schedules and Change Control, and wife Carol, Special Weapons Manufacturing Operations—son, Charles Francis on 14 May 1954 . . . time, 3:29 p.m. . . . weight, 6 pounds 12½ ounces . . . at Queen of Angels Hospital. Maternal grandfather is Harry Cline, Liaison Engineering.

Maryon Ellen

Born to Lewis Shutto, Engine Doors and Fairing, and wife Jean—daughter Maryon Ellen on 3 June 1954 . . . time, 9:30 a.m. . . . weight 8 pounds 9 ounces . . . at St. Francis hospital, Lynwood.

Central Control Program Adds Inter-facility Aid

RECENTLY COMPLETED inter-facility control point uses teletype system in servicing Ontario, Anaheim, and Palmdale shortages. Immediately after receipt, the requests are handed from teletype to screening desk, left, where process of filling request goes into motion. Teletype operator is Helen Haralson; screening: Helen Lockwood, Patsy Young.

Latest move by Manufacturing Control in the establishment of a major "central control" program has been the completion of the inter-facility control point, located just east of the bamboo hangar behind Plant Four.

The new control point is the terminal through which outlying Northrop facilities are provided with Manufacturing Control services in support of Scorpion production operations.

Current monthly volume of work already flowing through is approximately 1726 flight shortage requests; 2820 teletype messages; and 6000 different parts and miscellaneous items of supply.

Designed to increase efficiency and lower operating costs, the new control point utilizes teletype for the transmittal and receipt of visual written requests and information.

Ontario, Anaheim, and Palmdale are already hooked up.

Using a shortage as an example, the system works something like this:

The outlying facility, via teletype, requests a part that is needed on the production line. At the inter-facility control point the operator receives the message and hands it over to the screening desk.

Here the requests for parts and equipment are segregated. Calls are placed to the various stocking areas to ascertain the availability of the item requested. If it is not readily available, pertinent information is gathered so that an immediate reply can be sent to the requestor, advising him when he can expect the item.

The majority of items are on hand at the Hawthorne facility; they can be picked up and delivered to inter-facility control point in a matter of minutes, utilizing the radio-controlled inter-plant pick-up trucks.

With shipping operations and trucking schedules of the Transportation department now in effect, the parts can move from the control point to the requestor with efficiency and speed rivaling that of the intra-plant set-up.

There are control booths at the inter-facility control point which maintain shortage boards for each of the outlying facilities. From these booths shortage items can be quickly procured and held to an absolute minimum, Manufacturing Control Norcrafters say, for the information needed is an arm's length away.

CONTROL BOOTHS at central inter-facility control point have shortage boards for outlying facilities, departmental listings for fast supply of shortages. This is Ontario empennage control point, showing Leadman Ed Fiorito, left, discussing next move with Debby Branch. New control point is one of series of moves in establishment by Manufacturing Control of "Central Control" program to aid production.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 3)
CITRUS & GARVEY, Covina. (Route: West on Garvey, Rosemead, Manchester, Prairie. Need two more riders). P. D. BATELSON (5501-304, Ext. 2200), ED 2-7891. 12-3

(Zone 8)
CRENSHAW & 171ST, Torrance. MAX STERN (5501-331, Ext. 2200), MEnlo 4-6748. 12-8

(Zone 9)
EMERALD & HWY. 101, Redondo Beach. ESTELLE O. McCLELLAND (5586-81, Ext. 483). 12-9

(Zone 14)
CHANDLER BLVD. & CAMELLIA AVE., North Hollywood. (Route: Chandler, Lankershim, Cahuenga Freeway, Highland, Wilshire, Crenshaw to Plant III. Interested in car pool). ALBERT POPPE (5806-152, Ext. 533, SU 1-1543. 12-14

LANKERSHIM & MAGNOLIA, North Hollywood. (Will pick up anywhere in vicinity of Crenshaw). RON WEESNER (5806-22. Ext. 533), SU 3-4138. 12-14

7:30 a.m. — 4:15 p.m.

(Zone (5)
CARSON & WOODRUFF, Long Beach (8). (Want 3 more riders for car pool). JACK McGRAIL (5152-17, Ext. 1956), L.B. 399350. 13-5

CARSON & BELLFLOWER, Lakewood. LOIS McGRAIL (5930-811, Ext. 2498), L.B. 399350. 13-5

RIDES OFFERED

7:30 a.m. — 4:15 p.m.

(Zone 7)
WESTERN AVE. & 168TH, Gardena. VIVIAN STANFORD (6150-43, Ext. 2658), MEnlo 4-1876. 13-7

(Zone 9)
PALOS VERDES DR. & CALLE MAYOR, Redondo Beach. R. L. MOORE (3360-34, Ext. 1506). 3-9

(Zone 12)
FREEMAN & ARBOR VITAE, Los Angeles (45). (Would like to join car pool). WILLIAM C. BARNUM (3360-17, Ext. 1506).

TOPANGA CANYON BLVD. & HWY. 101, Topanga. SCHILLER SCROGGS (3250-46, Ext. 2693). 13-12

SEPULVEDA BLVD. & 77TH ST., Los Angeles (45). (Route: 77th, Airport Blvd., Century, Crenshaw). R. J. VICKERS (3430-95 Ext. 2035), OR 2-5356. 13-12

(Zone 14)
RIVERSIDE DRIVE & CAHUENGA BLVD., North Hollywood. J. S. NEWTON (3210-262, Ext. 2011), STanley 7-7967. 13-14

SHERMAN WAY & CANOGA AVE., Canoga Park. (Will share ride in car pool). WESLEY STOELTZING (3510-315, Ext. 2410). 13-14

CRENSHAW & 60TH. Los Angeles. (3230-123), PLeasant 1-1411 13-14

CRENSHAW BLVD. & RODEO ROAD, Los Angeles. (Buckingham Road, Santa Rosalia, Vernon, Crenshaw, 59th, 8th Avenue to Crenshaw). KAROLL SHURTZ (3120-21, Ext. 1689 or 1226), AXminster 2-3692. 13-14

Abdo Kander: Man With The Built-in Laughter

Abdenoor Kander is a young man who has a chuckle at his fingertips.

A member of the Perspective Drafting group in Engineering but more familiar to Northrop News readers as "Abdo", creator of "Did Tex take the shortcut?" and "Did Louie go back to the office?" cartoons, this young man is beginning to amuse Americans with his sleepy-eyed cartoon characters.

His first work in print was the "Tex" cartoon published in the Northrop News, March 24, 1954 issue. This was followed by "Musta been some ball game", "Steady Colonel, this won't hurt at bit", the "Snapdragons", and others.

Now he is moving toward national recognition.

Recently, the Martin-Goodman Publishing Company purchased one of Abdo's cartoons for publication in the MALE magazine; future purchases are indicated.

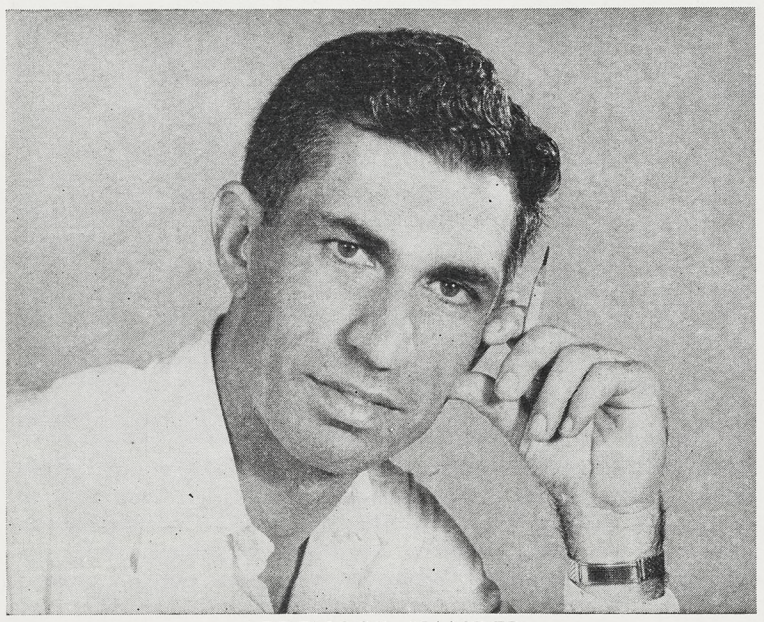
Abdo has a keenly developed sense of humor. He loves his fellow man.

He loves to sketch.

As a child he drew pictures—of all places—on the soles of his shoes!

(Bluejeans have little pocket space left for notebook and pencil after important things like rocks, nails, string, and frogs).

Abdo looks like a sure bet to follow in the success footsteps of Frank Adams, Bill Mauldin and Virgil Partch. Like these notables, Abdo has the ability to convert human foibles from sad to silly, tragic to comic, and to turn pompousness into puckishness — all at the stroke of a pen.



ABDENOOR KANDER

RIDES OFFERED

7:30 a.m. — 5:15 p.m.

(Zone 14)
RODEO RD. & LA BREA, Los Angeles. W. VOKES (3230-526, Ext. 553, AX 3-8993. 14-14

3:45 p.m. — 12:15 a.m.

(Zone 4)
ATLANTIC & IMPERIAL, Lynwood. (Route: Imperial to Crenshaw to Plant I). WALTER J. FREAUF (5501-461, Ext. 2200).

4:45 p.m. — 1:15 a.m.

(Zone 1)
LOS FELIZ & SAN FERNANDO RD., Glendale. ANTHONY S. KOLAYA (5930-279, Ext. 2498), CI 3-3048. 18-1

WESTERN & 8TH ST., Los Angeles (5). (Route: Crenshaw, Freeman, Inglewood). TOM HAMMOND (5585-678, Ext. 1381), DU 4-3048. 18-1

HOLLYWOOD & VERMONT, Hollywood (27). ANDRE R. DORLET (5586-657, Ext. 1973), NO 3-8680. 18-1

(Zone 3)
GARVEY & PUENTE AVE., or Glendora & Valley Blvd., West Covina. (Interested in car pool only in vicinity of Baldwin Park, Covina, Puente). GEORGE PRESLEY (5587-217, Ext. 2236), ED 6-5204. 18-3

(Zone (5)
CHAPMAN BLVD. & STANTON BLVD., Garden Grove. (Highway 39 to Firestone Blvd. to Rosecrans). IRENE BLUME (5544-403. Ext. 2645). 18-5

OLIVE & LONG BEACH BLVD., North Long Beach. ROBERT WALDEN (5587-483, Ext. 1947), NE 5-2698. 18-5

(Zone 6)
OCEAN BLVD. & PROSPECT AVE., Long Beach (3). (Belmont Shore area). GEORGE B. OTTIS (7230-254, Ext. 1875), L.B. 347625. 18-6

(Zone 9)
PACIFIC COAST HWY. & HAWTHORNE BLVD., Torrance. GENEVIEVE PENNOYER (5507-493, Ext. 526), OR 1-1007. 18-9

INGLEWOOD & REDONDO BEACH BLVD., Redondo Beach. B. M. OLDZIEWSKI (5589-240, Ext. 2167 or 1257), FR 4-1130. 18-9

(Zone 10)
INGLEWOOD & ROSECRANS, Lawndale. (Will pick up in surrounding area). BILL NEWMAN (5587-619, Ext. 2236), OS 6-4841. 18-10

(Zone 4)
MELROSE & VINE, Hollywood (38). PHILIP B. SEGALL (5586-658, Ext. 1973), HO 9-9695. 18-14

PALMDALE
Miscellaneous (Split Shifts)

Q & 40TH, Palmdale. (Interested in car pool). J. T. DENNY (H5820-366).

Rides Wanted

7:00 a.m. — 3:45 p.m.

(Zone 1)
SUNSET & EDGEMONT, Los Angeles (27). W. A. GORDON (7210-27, Ext. 2206), NO 4-4862. 2-1

VERMONT & JEFFERSON, Los Angeles (7). MILDRED SUTHERLAND (4270-39, Ext. 2784) RE 7613. 2-1

SAN FERNANDO ROAD & SONORA, Glendale. (Interested in car pool). A. L. NOVOTNEY (3410-84, Ext. 445), CI 1-0164. 2-1

(Zone 2)
HOOVER & 75TH ST., Los Angeles. ROY L. DUTTON (5820-12, Ext. 2239). 2-2

MARENGO & SOTO ST., Los Angeles. ANTONIO E. SISNEROS (5503-513, Ext. 2681). 2-2

(Zone 3)
CITRUS & GARVEY, Covina. (Route: West on Garvey, Rosemead, Manchester, Prairie. Need two more riders). P. D. BATELSON (5501-304, Ext. 2200), ED 2-7891. 2-3

(Zone 8)
CRENSHAW & 171ST, Torrance. MAX STERN (5501-331, Ext. 2200), MEnlo 4-6748. 2-8

(Zone 10)
PROSPECT & 7TH PLACE, Hermosa Beach. JOHN CABLE (5501-64, Ext. 2200), FR 2-0149. 2-10

(Zone 13)
ROSITA & ROSCOE, San Fernando. PAUL APA (5162-363, Ext. 548), PL 5-4969. 2-13

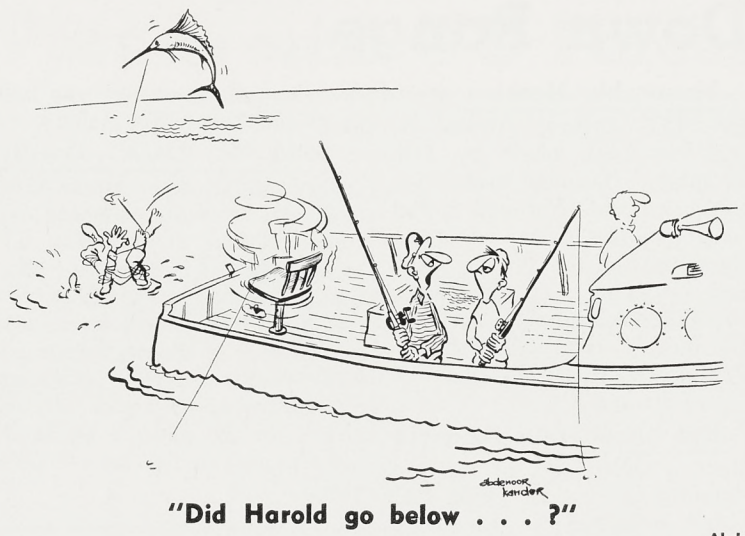
(Zone 14)
SANTA BARBARA & CRENSHAW, Los Angeles (8). ZORA SANCHEZ (6457-65, Ext. 1709), AX 2-0287. 2-14

SLAUSON & LA BREA, Los Angeles (43). A. E. GERONIMI (5508-197, Ext. 520), AX 4-0474. 2-14

CHANDLER BLVD. & CAMELLIA AVE., North Hollywood. (Route: Chandler, Lankershim, Cahuenga Freeway, Highland, Wilshire, Crenshaw to Plant III. Interested in car pool). ALBERT POPPE (5806-152, Ext. 533), SU 1-1543. 2-14

ONTARIO
7:00 a.m. — 3:45 p.m.

SAN BERNARDINO AREA, Crestline. (Desire three riders to and from work). KENNETH FACE (N5411-52, Ext. 236).



"Did Harold go below . . . ?"

Abdo

RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 1)
FLORENCE AVE. & VAN NESS, Los Angeles (47). CATHERINE D. WATRO (3144-107, Ext. 1391). 3-1

VERMONT & OLYMPIC, Los Angeles. LA VERNE ASZMAN (8400-37, Ext. 2736), DU 2-4445. 3-1

(Zone 3)
MANCHESTER & FIGUEROA or Crenshaw, Los Angeles (3). HELEN SULLIVAN (7500-16, Ext. 2694). 3-3

(Zone (5)
CARSON & WOODRUFF, Long Beach (8). (Want 3 more riders for car pool). JACK McGRAIL (5152-17, Ext. 1956), L.B. 399350. 3-5

VERMONT & ROSECRANS, Gardena. JOY PRUITT (1441-26, Ext. 1811 or 2393), MEnlo 9-3653. 3-5

(Zone 6)
VERMONT & 170TH ST., Gardena. BETTY EMERY (9350-34, Ext. 2298), MEnlo 4-8924. 3-6

WESTERN & COMPTON, Gardena. BETTE J. EMENS (6630-11, Ext. 710 or 748). 3-6

(Zone 7)
AVALON & HIGHWAY 101, Wilmington. LAURENE BARTHOLOMEW (3230-837, Ext. 1230). 3-7

WESTERN & 174TH, Gardena. PATRICIA WILKERSON (1441-46, Ext. 693. 3-7

(Zone 8)
CRENSHAW & 179TH, Torrance. JOYCE MILLER (4240-15, Ext. 777). 3-8

WESTERN AVE. & 205TH, Torrance. BARBARA GOODWIN (4240-17, Ext. 777), FA 8-6061. 3-8

CRENSHAW & REDONDO BEACH BLVD., Gardena. FRANCES FRAME (5141-23, Ext. 516), MEnlo 9-2693. 3-8

(Zone 9)
COMPTON & PRAIRIE, Lawndale. DOROTHY BENNETT (1441-21, Ext. 2728), (Building 21), OS 5-2089. 3-9

RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 9)
PALOS VERDES DR. & CALLE MAYOR, Redondo Beach. R. L. MOORE (3360-34, Ext. 1506). 13-9

(Zone 10)
HERMOSA AVE. & 22ND ST., Hermosa Beach. BUZ BROWN (8620-126, Ext. 2011), FR 4-9082. 3-10

MANHATTAN AVE. & 28TH ST., Hermosa Beach. PHYLLIS GEREN (3270-324, Ext. 405 or 409). 3-10

(Zone 12)
FREEMAN & ARBOR VITAE, Los Angeles (45). (Would like to join car pool). WILLIAM C. BARNUM (3360-17, Ext. 1506).

MANCHESTER & EMERSON, Los Angeles (45). BEE SHAMBURGER (9330-71, Ext. 2111), OR 1-4906. 3-12

CENTURY & AIRPORT BLVDS., Los Angeles. (Or can go to Airport & Arbor Vitae). JOYCE OHLWILER (1441-20, Ext. 1493), PL 4-1317. 3-12

TOPANGA CANYON BLVD. & HWY. 101, Topanga. SCHILLER SCROGGS (3250-46, Ext. 2693). 3-12

(Zone 13)
WILSHIRE & WESTWOOD, West Los Angeles. EVELYN CLOUGH (5126-68, Ext. 1931), AR 9-9009. 3-13

(Zone 14)
WILSHIRE & LA CIENEGA or SAN VICENTE, Beverly Hills. MINNA COSTANTINE (6620-23, Ext. 1518), WE 3-6517.

RIVERSIDE DRIVE & CAHUENGA BLVD., North Hollywood. J. S. NEWTON (3210-262, Ext. 2011), STanley 7-7967. 3-14

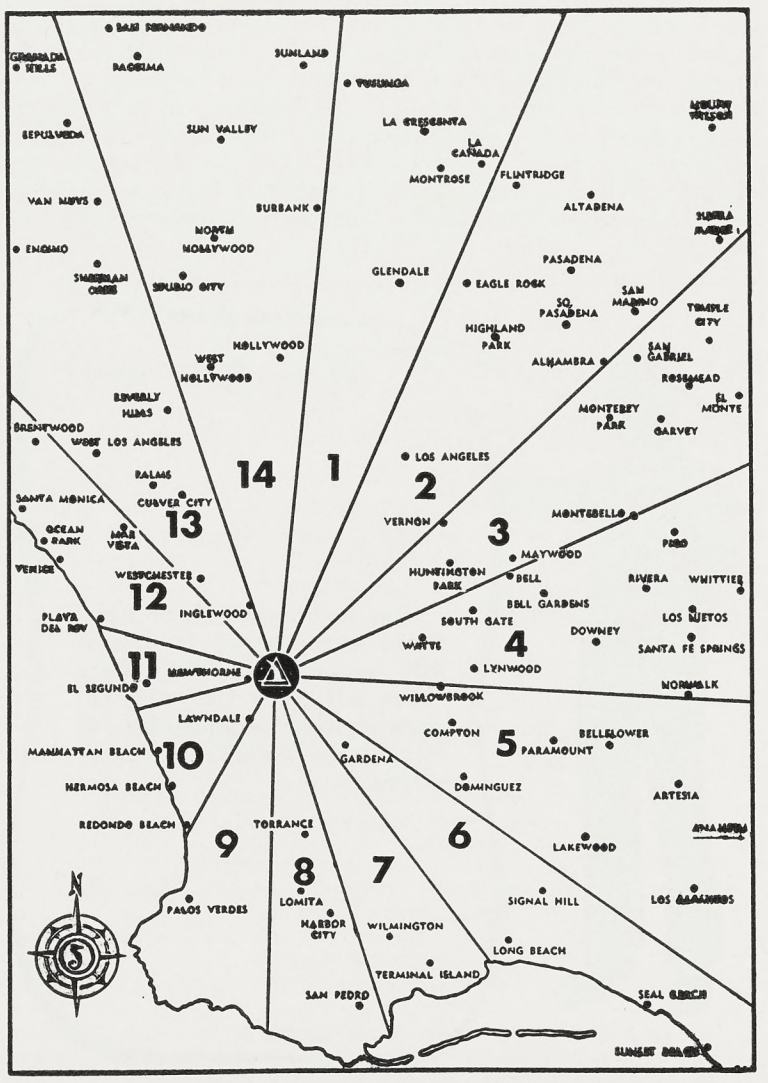
CRENSHAW & 60TH, Los Angeles. (3230-123), PLeasant 1-1411. 3-14

BURBANK BLVD. & SAN FERNANDO RD., Burbank. ED JOHNSON (3140-97, Ext. 495), TH 8-7765. 3-14

SHERMAN WAY & CANOGA AVE., Canoga Park. (Will share ride in car pool). WESLEY STOELTZING (3510-315, Ext. 2410). 3-14

(Continued on Page 6)

GMW Zone Map



BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

PLYMOUTH, '41 club coupe, clean, seat covers, new brakes, $95. EUGENE A. COATES, PL 2-3221. A

PUPS, Weimaraner, silver grey, from champion Dottlyle, good hunters, pals for children, worth $150, bargain prices $50 and up. S. J. HARRY, EXbrook 8-5084. A

RADIO, PHONOGRAPH combination, Admiral, walnut console, modern, perfect condition, $35. ROY A. WOMACK, PLymouth 6-6964.

FORD, 1935 coupe, transportation car, $30; also 1941 FORD 4-door transportation, $75; good engines. JOSEPH K. SMITH, VE 8-6471 between 5 and 6 p.m. A

REFRIGERATOR, Coldspot, deluxe model, 6.5 cu. ft., overhauled, guaranteed, $50. WALTER MORRISON, MEnlo 4-6430 after 5 p.m. A

CHEVROLET, 1951 club coupe, 19,000 actual miles, radio and heater, excellent condition. JACK MOOS. Reply in writing to Northrop News, Box 2308. A

HOUSE, three bedrooms and den, or four-bedroom, stucco, five minutes from Northrop, $42.50 per month, with $2000 down, total price $11,750. T. E. LUNDGREN, OS 6-7427. A

TRICYCLE, Wheelcraft chain drive, 16x 1.75 wheels, overhauled, new red paint, $42 when new, $10. L. MASON, OS 6-1943. A

DODGE CARRYALL, GI 4-wheel drive, built-in bunks, just the thing for rockhounds and back country trips, A-1 condition throughout, winch, PL 4-4384. A

KITTENS, silver Persian, 9 weeks old, pedigreed and registered, males and females, $25. CLARENCE S. TAYLOR. Reply in writing to Northrop News, Box 2310. A

CHANDELIER, Early American, brass with 3 lamps, excellent condition, $16. BETTY PATTON, OSborne 5-5306 after 4:30 p.m. A

RIFLE, Model 70-270 Winchester, also SHOTGUN, 12 gauge Remington automatic, ventilated rib barrel, both like new, plenty of ammunition, $165 for both. KENNETH E. VARNEY, MEnlo 9-5427 after 5 p.m. A

BICYCLE, boy's 26" Schwinn, $20; Zenith portable AC-DC transoceanic RADIO, $45; box TRAILER, expired license, 6:00x16 tires, $20; 6x30 featherweight BINOCULARS, $30. BOB PEOPLES, TO 4-5536. A

FORD, 1947 club coupe, radio and heater, spotlights, skirts, seat covers, very clean, $425. OR 7-3328. A

MACHINE LATHE, Atlas, 8" swing, 24" between centers, quick change, with motor and all toolina, $375. H. M. YOUNGS, TOpaz 9-3496. A

HUDSON HORNET ENGINE, 1952, short block with aluminum head, intake manifold, carburetor, air cleaner, needs sleeves in #5 and #6 cylinders, 22,000 miles, $125. HERB GRYDE, AX 1-4063 evenings. A

BOAT, 14', B. HILAND. Reply in writing to Northrop News, Box 2300. A

WASHER, Kenmore agitator-type, purchased in 1950, used 10 months, stored away, like new, $40. MAX STERN, MEnlo 4-6748. A

PACKARD, 1939 Super 8, 4-door, overdrive, radio, good paint and tires, new battery, runs good, $120. R. D. MORRIS. Reply in writing to Northrop News, Box 2301. A

HOUSE, Manhattan Beach, 1½ blocks from beach, stucco, 1-bedroom, shower room, porch, garage, just painted inside and out, $1500 down. E. CLUTE, LO 1888. A

TRUMPET, King, special carrying case, canvas protective case, 4 mutes, $75. G. F. EGAN. Reply in writing to Northrop News, Box 2302. A

GAS RANGE, good condition; GAS HEATER, good condition; one 5-cu. ft. Frigidaire REFRIGERATOR; $175 takes all three. OLLIE S. ALLEN, MEtcalf 3-0849. A

FORD, 1938 coupe, 4 nearly new recap tires, seal beam headlights, good transportation car, $50. OS 5-2159. A

NASH "600", 1949, radio, heater, overdrive, sunvisor, looks and runs good, good mileage, best offer. O. TIEDEMANN, JR., OS 5-3554. A

TRAIN EQUIPMENT, Lionel locomotive, cars, track, etc.; also large MODEL AIRPLANE with engine and assorted parts, $85 whole works. JOE TALLEY, EX 5-2304 after 4:15 p.m. A

FOR SALE

CHEVROLET, 1950 2-door sedan, good clean car, $350 for equity, take over payments. MARION P. STUBBS, OSborne 6-0489. A

SKI BOAT, 17' utility, 85 h.p. Ford V-8 motor, 35 miles an hour, fiber glass bottom, sturdy trailer, $750. W. D. KEARNEY, FRontier 5-3584. A

WASHERS, good condition, automatic, $25 each; 22-hole wire CHICKEN PEN, $15; Model A pickup TRUCK, good condition, $65. FR 2-4474. A

OLDSMOBILE, '48, Model 98 sedanette, radio and heater, good mechanical condition, clean throughout, price $525. Call FRontier 4-4515 evenings. A

TABLE, red formica, 32", round, solid base, used one month, perfect condition, cost $36, sell for $15. ALICE PERKIN, FAirfax 8-5265. A

CHICKEN EQUIPMENT—brooder, fryer battery, individual laying battery, hen house with outside run, your price. FLOYD IDEAL. Reply in writing to Northrop News, Box 2304. A

TRAILER, two-wheel utility, very clean, 5'6"x6'11"x2', conventional leaf springs with coil overload springs, good 6:00-16 tires, lights, light plugs, hitch, safety chains, license, $65. RICHARD FOLTZ. Reply in writing to Northrop News, Box 2305. A

OUTBOARD BOAT, 1950 Collins Craft, with cabin; 1951 Mercury 10 h.p. MOTOR, with Fleet Craft trailer, forward controls, steering acceleration control, $500. E. GERTISER, NE 5-5894. A

DRILL PRESS, Buffalo, $35; REFACER, Hall Value, $25. OR 7-8035. A

BOAT, 20'x7½' beam, raised deck cruiser, engine recently rebuilt, includes anchor and compass, $350. C. A. WINTERS, EX 9-3897. A

HOUSETRAILER, 24', 3-room Pan-American, carpeted, electric refrigeration, like new inside and outside, $1050, ALBERT BEYER, OR 2-3460. A

PAINT SPRAY OUTFITS, Sharpe compressor and 4-cycle Briggs and Stratton gas engine, mounted on two-wheel trailer, includes hose, Binks model 18 spray gun and 12-gallon tank, $300 complete; also 1/3 h.p. Sharpe compressor, with 3-gallon tank, hose, Sharpe paint spray guns, $75. W. G. JARVIS, L.B. 8-1773. A

SILVERWARE, service for six, like new, $12.50, PLeasant 1-1411. A

CHEVROLET, 1941, ½-ton panel truck, clean, needs engine work, $150, GEORGE LEWITZKI, OR 1-0259 (after 6 p.m., OR 8-2283). A

REFRIGERATOR, Frigidaire, 1954, used three months, perfect condition, paid $226, will take $185, Gaffers & Sattler table top RANGE, good condition, $55; Royal VACUUM CLEANER, with attachments, $10; library TABLE, with one leaf, $8, E. E. MILLAR, ORchard 2-6748. A

FORD, '54 convertible, must sell, sacrifice, FR 2-4014. A

RABBITS, 10 does, some with litters, 1 buck, 7 double-hole hutches, 1 triple-hole hutch, nest boxes, crocks, feeders, $50, FRANK L. BANNING. Reply in writing to Northrop News, Box 2319. A

MERCURY, 1951 4-door sport sedan with radio and heater, direction signals, 2 spot lights, twin pipes Mallory points, 6-ply white wall tires, $995, VERNON W. PAYNE. Reply in writing to Northrop News, Box 2318. A

TRUCK, 1948 pick-up, ½-ton, clean, low mileage, good paint and rubber, needs no repairs, sacrifice for cash, make offer, D. S. CAHILL, DAvenport 6-3073. A

CEMETERY LOT, space for 4, Enduring Faith at New Forest Lawn, North Hollywood, reasonable, private party, phone VErmont 8-8976. A

LOT, R-2, 40'x128', three-car garage, must sell, best offer, RAYMOND MODIAINO, PL 6-6177. A

FORD, 1953 V8 convertible, radio, heater, Ford-O-Matic, white walls, immaculate, original owner, $1895, H. W. JACKSON, FRontier 7-1074. A

BICYCLES, two 26" boy's, rebuilt, painted, new tires, reasonable, D. BUCKALEW, DAvenport 6-2820. A

HOUSE, 1 year old, 3-bedroom, many closets, dual thermostat-controlled furnace, large picture window, hardwood floors, dining room, center hall, stucco with redwood front, fenced back yard, 5 minutes to beach, 15 minutes to Northrop, $9950, $1950 down. J. LESLIE WOLLING, FR 9-2670. A

FOR SALE

MERCURY, convertible, 1952, low mileage, canary yellow with black top, beautiful interior, like new, electric windows and seat, radio and heater, tinted glass, life guard tubes, almost new tires, one owner, $2100, ELISE M. JOHNSTON, MEnlo 9-1627. A

HOUSE, 3-bedroom, garage, redwood-fenced back yard, close to school, market, bus line, 15 minutes from Northrop, in full $7050, $1250 down, $64.50 per month, H. R. HILTON, MEnlo 4-8432. A

TRAILER, utility, 4½'x9'x4', 3000-pound capacity, C. M. OLSON. OS 5-6500. A

AIRPLANE, Cessna-140, 1948, low A&E time, fully equipped, selling on share of stock form, about $80 per share, BEN SMERNOFF. Reply in writing to Northrop News, Box 2314. A

MOTORCYCLE, 1953 matchless Springer, 30.50, like new, $500. LARRY DAVIS, PLymouth 6-5996. A

MERCURY, 1947 club coupe, radio and heater, new tires, directional lights, window sprayer, 3 months old green paint job, very good mechanical condition, $460, PAUL A. ONOFREY, OR 7-2987. A

PONTIAC Chieftain, 1952 8 cylinder, 4-door, deluxe with Hydra-Matic, radio, heater, and extras, low mileage, $1600, J. C. HYLTON, FR 5-6406. A

GUN COLLECTOR'S ITEM—Chinese handmade facsimile of S. & W. .38 revolver, five-shot, carved wooden grips, blue metal, in firing condition, but firing not recommended, GENE BURTON, PL 5-4258.

BUICK Super Riviera, 1951, hardtop, Dynaflow, radio, heater, etc., 29,000 miles, one owner, $1295, H. SCHIELDERUP, L.B. 399579. A

STOVE and REFRIGERATOR, gas, good condition, $50 each, O. A. BROWN, OS 6-8743. A

DRAFTING TABLE, engineer's 3'8"x7', with 2 drawers and blue print rack, $25; 12'x14' heavy weight canvas TENT with 7' ridge, and 2' high flaps, $25; 19' lightning SAIL BOAT KIT, $75, H. R. STANLEY, OS 5-1450. A

HIGHCHAIR, like new Babyline, foot rest and plastic tray, in original carton, $10, F. HAYOS, OR 8-6681. A

IRONER, portable, like new, $22.50. KATHLEEN EMGE, PL 3-6744. A

PIANO ACCORDION, white Camerano 120 bass, used 3 months, cost $402.53, asking $250, LEON BLANCHARD, YUkon 69-111 (Ontario). A

CABIN SITES, Frazier Mountain Park, only 75 miles up the Ridge Route, water, gas, electricity, 2 lots 35x100 each, both for $595. $75 down, $20 monthly, SHIRLEY ANN GREENO, RE 1-2691 or NO 2-3261. A

DINING SET, solid oak blonde, 6 pieces, $125; hand painted birch and stream SCENE, ivory frame, large. $35; hand painted animal PICTURES, $10 each; single BED with Bates spread, $20 complete; KITCHEN SET, extension table, just lacquered white and chrome, $25; 2 matching chain hand-hooked RUGS 9x12 and 6x9, rose color predominates, $75 both; dark green monks cloth DRAPES, window length, lined, 2 pair $15; DESK, mahogany, with bar in end, $10. VIRGINIA BAUBY, ORchard 1-3487 after 4:30 p.m.

TRAILER, 16' Kenskill 7' wide, 1953 model, deluxe workmanship, $1150, ROBERT PATON. Reply in writing to Northrop News, Box 2313. A

AUTOMATIC WASHER, Bendix, excellent condition, $45; BATHINETTE, like new, $20, EDW. CHESWICK, ORchard 7-4365.

FORD ENGINE, 1950, complete including clutch and transmission, good condition, 33,000 miles, Evans 8-1 heads, Harman Collins ¾ cam and complete Mallory ignition system, extra equipment, stock distributor, stock cam, voltage regulator and new Buick quad carb, available after June 28, price $250. J. B. MORGAN, JR. Reply in writing to Northrop News, Box 2317 A

TRUCK, 1950 Chevrolet ½-ton panel, 28,000 miles. $700, W. G. JARVIS, L.B. 8-1773. A

RAZOR, Schick "20" electric, $20; Coldspot REFRIGERATOR, 8'. $55; Bendix automatic WASHER, $35; '47 Salisbury SCOOTER, replacement motor, $125; Hallicrafter 10" TV, $47.50; RCA table RADIO and 45 r.p.m. RECORD PLAYER, $30, DON GALVIN, L.B. 700-610. A

HOUSETRAILER, 1948 Masterbilt 30', shower, electric refrigerator, stove, birch interior, indirect lighting, custom built, dual wheels, very clean, $1950, C. C. AUSTIN, EDgewood 5-1605 (Glendora). A

WASHER, Kenmore wringer. 1946 model, good condition, $25. L. BARTH, EX 7-6586. A

MOTORCYCLE, 1954 Triumph Terrier, perfect condition, 406 actual miles, over 75 miles to the gallon, $300, easy terms, BART NATISIN. Reply in writing to Northrop News. Box 2303. A

TABLE SAW, 8" Dunlap, non-tilting, practically new, $12. B. E. RUNSWICK, ORchard 7-3514. A

IRON, Westinghouse, like new, $5; Kenmore WASHER, $25; HEATER, small, $2; Dearborn HEATER, 20,000 BTU 26", $25; 2 piece sectional DAVENPORT, yellow, $150; black lacquer COFFEE TABLE and END TABLES, $75, MARY BULTMAN, PL 8-5020. A

ASBESTOS ASPHALT, 2½ rolls heavy roofing in original wrapping, $3.50 for lot. JOHN K. DAWSON, MEnlo 4-7762.

FOR SALE

CHEST, four drawer, $5; console RADIO, $10; SILVERPLATE, service for 6 with 12 teaspoons, $5; interior house DOOR with hardware, 6'7½"x31"x1⅜" thick, $6; baseball SHOES, size 9; fielder's MITT; pair table LAMPS 30" tall. $20 for pair, like new. G. AUBRY, FRontier 4-0067. A

SPRAYER, complete with spray gun and hose, less motor, never used, operates on pressures from 15 to 45 pounds, $30; Wilcox-Gay TAPE RECORDER, Model 3A10, latest type, recording-radio-TV plug-in, extra speaker attachments, cost $210, will sell for $150; maple BUNK BED set, complete with springs and mattress, $25; Wagner ¼-h.p. MOTOR, split phase, never used, $25; tank type VACUUM CLEANER, never used, large ⅝ h.p. motor, 12-piece attachment set, BEE-VAC, latest make, cost $130, will sell for $70. Call REpublic 4-6827 after 4:30 p.m. for appointment, or Saturday till noon. A

DRILL, electric ¼" Black and Decker, $12; STENOTYPE, $30; Rainbird SPRINKLER and stand, $5. L. E. MURDOCK, FA 6-0080. A

PLYMOUTH Savoy, '54 Hy-Drive, club sedan, many extras, 1900 miles, will sell equity of $1200 for $600 cash, and take over payments. HERBERT E. WOODS, DAvenport 6-3408 after 4:30 p.m. A

ENGINE, gasoline, 6 h.p., brand new, 1 cylinder, air cooled, suitable for scooter, motorboat, auxiliary engine, pump or electric power plant, $50. SCOOTER, "Jeepette," good running condition, new generator, needs battery and 1954 license, $50. P. P. MARTY, VE 8-8420. A

ELECTRIC BARBECUE SPIT, never used, latest model, 2 pieces, separate motor, sliding set screw that attaches to motor on plate, $20. Call VErmont 9-6379 after 5 p.m. A

HOUSE, 2 bedrooms, in new area of N. Redondo, near new shopping center and school, hardwood floors, floor furnace with thermostat, cedar shingles, fiberglass insulation, custom weather stripping, water softener, Bendix automatic washer, redwood fence, retaining walls, shrubs, paved driveway, five years old, terms to suit, low as no down payment. W. L. CONDIE, FR 9-4103. A

SAILBOAT, "Chelan," 26' gaff-rigged ketch, 8' beam, 4½' draft, solid spruce masts and booms, rigged for deep sea cruising, can sleep three, price $4000; BOAT, sport fishing, 32', Lohman hull, built 1938, sleeps two, galley, head, new bait tank, motor almost new, flying bridge, dual control, excellent condition, $2000 cash. VERA RIDEOUT, FRontier 9-3110. A

BAGS, 1 small Indian-beaded over-shoulder; one pale raspberry suede Joyce over-shoulder pouch, $18 and $15 items for $3 and $4, respectively; never used; KITTEN, tortoise shell, rare markings, $5. T. ANDREEVA, Box 368, Pacific Palisades. A

VOLKSWAGEN, '53 black, red plastic upholstery, Telefunken RADIO, $1495, L. WACO. EX 4-1014. A

CAMERA, Rolleicord III, with case, new condition, $90, cost $150. L. M. WACO, EX 4-1014. A

CERAMIC OVEN, cost $90, sell for $50; 16mm-8mm combination MOVIE TITLER, never been used, cost $37, sell for $15; Victor ADDING MACHINE, $20. ROBERT L. STOTLER, ADams 1-0347. A

LIVING ROOM SET, brown and beige, $150; 2 mahogany END TABLES, $12.50 each; 1 mahogany COFFEE TABLE, $15; 1 mahogany DINING ROOM SET, $140; 1 mahogany TELEPHONE STAND, $20. M. E. ARMSTRONG, MEnlo 9-2005. A

HOUSE, 3-bedroom, 3 minutes to Northrop, $1750 down, balance $7150, payments $68 month, available July 1. WILLIAM E. BRENNAN, OSborne 5-3884. A

HOBBY EQUIPMENT, Cress ceramic kiln and molds, 1 cu. ft. hobbyist kiln, works on 110 volts, numerous molds, $100 takes all; INCINERATOR, used, concrete, $5; Victor SPHERE MACHINE, slightly used, personal instructions furnished, ideal for personal or group use, $150. FRontier 4-8317 after 5:30 p.m. A

BOAT ENGINE, Ford V-8'60', complete with Ford parts, such extras as hi-pressure oil pump, re-built distributor, starter and generator, new wiring, coil, condenser and plugs, cylinders relieved, and water pumps blocked off for marine conversion, $65 complete. W. K. CALDWELL, FRontier 2-2654. A

BICYCLE, good condition, 26" boy's, $17.50; HANDBAGS, handwoven, nylon, colors. G. H. ANDERSON, OS 5-2880. A

CAMERA, Leica III C, F:2 tinted lens, telephoto lens F:4 10mm, rangefinder, synchronized flash attachment, G.E. light meter, gadget bag, best offer over $200. H. L. MORRIS. Reply in writing to Northrop News, Box 2330. A

STOVE, apartment size, good condition, $20. VICTOR SUSTARSIC. Reply in writing to Northrop News, Box 2331. A

ACCORDION, universal 120 bass, 10 months old, used 6 months, want someone to take over payments, very good condition, case included, cost $350 new, balance $210—payments $14.96 per month. HARRY ALSOP. Reply in writing to Northrop News, Box 2332. A

RANGE, table top electric, clean condition, $50. H. S. CARRIERE. Reply in writing to Northrop News, Box 2333. A

FOR SALE

FISHING EQUIPMENT, Marlin gear, Penn Senator 6/0 reel, 24 thread white Irish linen line, tuna glass rod, genuine leather harness, leaders, value $118, never used, $55; RIFLE, Remington 721, 30-06 K2.5 scope, mount, case, shells, swivels and sling, $120. BILL NEWMAN, OS 6-4841. A

FILM DEVELOPING and PRINTING SET-UP, includes generous amount of attachments, practically new, $70; electric steel Hawaiian GUITAR with amplifier, used twice, $85. ERNEST W. EELES, FRontier 2-4494. A

BUNK BEDS, metal, new mattresses, $15 each; PISTOL, .25 automatic, like new, only 5 rounds fired, make offer, $25; CAR BATTERY, like new, 110 amp., cost $24.95, will sell for half price; LAWNMOWER, almost new, Great American Pennsylvania, $25. L. F. PERKINS. Reply in writing to Northrop News, Box 2327. A

DUPLEX, stucco, 5 rooms each side, one side rented for $70, good condition, Culver City, $13,000—$3,000 down. REX RICE, JR. Reply in writing to Northrop News, Box 2323. A

BENDIX WASHERS, fully automatic, complete with attractive cement platforms, $29, all machines in good working order; CHICKEN EQUIPMENT, 22-hole chicken layer pen with automatic egg handling and Dewdrop water, $15. FR 2-4474. A

CADILLAC, 1940 Fleetwood sedan, engine just overhauled, tires and body very good, $250; four 7:60x15 whitewall TIRES and three Lifeguard TUBES, all practically new, $80; push button CAR RADIO from '50 Plymouth, very good condition, $30. ROBERT L. ULLERY, OS 6-8433. A

HOUSE, 3-bedroom, vicinity Compton Blvd. and Central Ave., $9500—$1500 down. BOBBIE S. NOBLE, NE 2-8789. A

FRIGIDAIRE, quick freeze, 27 cu. ft., used but good condition, $50. OSborne 6-9456. A

BOWLING BALL and zipper bowling BAG, slightly used, $15. DONALD D. SEITZINGER, ME 4-5585. A

PLYMOUTH, '50 business coupe, one owner, $800. FR. 2-4014. A

CAMERA, Kodak Retina I with fine leather case, 3.5 Schneider-Xenar lens, compur shutter, $28.50. JIM HARRIS, OSborne 6-5847. A

MOTORCYCLE, Harley Davidson 71, Police Special, $85; DIVAN and CHAIR, $20; EXTRA CHAIR, $5. PHILIA SCHMUCK, PL 4-5363. A

WASHING MACHINE, wringer type, Whirlpool, very good condition, reasonable. E. D. POSER, FR 2-1839. A

TV ANTENNA, Radarscope, almost new, $10, original cost, $25; GAS HEATER, small, like new, $10. D. E. FOX, FR 9-4830. A

AIRPLANE, 1946 Swift 125, 75 hours since major overhaul, licensed to December, 1954, L-F receiver-transmitter, new interior side panels and seat covers, large pneumatic tail wheel, ship cruises 125 mph, over $2000 invested, need cash, must sell immediately, $1695. ROSS CONNELY, ORegon 8-6548. A

MOTOR, Silvertroll electric outboard, good condition, value $74.50, $25. PHILIP E. BURKE, OS 6-5460. A

TRUMPET, King, $45. FRED LUDBERG, PL 1-6502. A

ENGINE BLOCK, 1941 Mercury, bare, sanded and painted, will stand ⅜" over bore, very little ridge at top of bore, $25. JIM WOOD, JR., RE 3-8212. A

MOTOR BIKE, Whizzer, motor completely overhauled, generator and sealed beam headlight, etc., asking $45. VERA BESSUT NE 5-4537. A

STAMP & COIN COLLECTIONS, assorted war trophies, including antique German pistol and silver-plated 16" dagger crested with German eagle and Nazi swastika, any offer. R. FAJARDO, LAwrence 2-3533 (Buena Park). A

CADILLAC limousine, 1941, perfect condition, like new, 47,000 miles, $700. HENRY E. CROWELL, OR 1-1660. A

MERCURY, 1952 hard-top Monterey, with Merc-O-Matic, loaded with extras, very low mileage, one owner, will sell for best offer. M. KNOTT, AX 2-5694 evenings. A

NASH Ambassador, 1947 club coupe, radio, heater, signal lights. G. E. MERRILL, OS 6-1238. A

LA SALLE, 1937 4-door sedan in running condition, $50. JOHN R. STUCKLEY, ORchard 2-5164. A

BOAT 18' outboard cruiser, 1 year old, sleeps 2, 25 h.p. Evinrude and controls, must sell, $800. GEORGE WRIGHT, Harbor 2247-W (Newport Beach). A

BOXER PUPS with papers, reasonable. JOAN SWIFT, FR 2-4600. A

OLDSMOBILE, '39 tudor, '46 engine, radio and heater, A-1 condition, good tires, $150. E. F. McMANUS, AX 1-7507. A

CLOTHESLINE POLES, set of 8' steel, $4.50. OS 5-4054. A

CUTOUTS for exhaust system, cast iron construction, complete with flexible control linkage, two available, $7.50 each. S. CHAIS, DIckens 2-9384. A

FREEZER, 18 cubic foot upright, G.E., good condition, $85. F. G. EAGAN, WY 1356. A

(Continued on Page 6)

BBSF CLASSIFIEDS

(Continued from Page 5)

WANTED TO BUY

CHEVROLET, 1949 or 1950 club coupe, reasonable. RHODA SCHULTZ, MEnlo 4-3071. B

TOOLBOX, Kennedy Kit. T. A. BORDEAUX. Reply in writing to Northrop News, Box 2306. B

BICYCLE, boy's 20" to 24", for 8 year old, also BASEBALL EQUIPMENT for "little league", (catcher's outfit, umpire's chest protector, etc.), R. W. FEENY, EL Segundo 1683-W. B

CEMENT MIXER, small or medium size. H. B. OLIVER, EXbrook 8-1353. B

BABY CRIB and no-wet mattress. L. F. PERKINS. Reply in writing to Northrop News, Box 2328. B

SHOPSMITH, must be in good condition and reasonable, will pay cash. BOB WAITE, FAirfax 8-6523 between 10 a.m. and 3 p.m. B

AUTOMOBILE, good transportation car, must be 6 cylinder, prefer Plymouth, Chevrolet, or Ford; DRILL PRESS, approximately 4" jaw vise, and foot square shears. H. E. HARWOOD, OR 8-6444. B

FOR TRADE

FORD, 1940 coupe, '48 Mercury engine, new paint and w/w tires, trade for '47 or '48 Harley Davidson motorcycle, 74 OHV, OS. 6-9578.

PIANO and bench, upright, cherry wood, excellent condition, trade for player piano in good condition, OSborne 5-5064. C

REVOLVER, Japanese .32 caliber, for .25 automatic (Colt preferred), DAVE ELLIOTT, NE 2-6719. C

WASHER, Easy Spindrier, for bicycle, 26", or portable or clock radio, R. E. ANDREWS, EX 8-8619.

LAND, Palmdale, 2½ acre estate; will exchange for equity in Los Angeles property, W. F. STUDEWELL, TW 5242. C

LOT, Lake Elsinore, 44'x80', good view, O. A. BROWN, OS 6-8743. C

DODGE PICKUP, 1953 ½ ton, deluxe cab, radio, heater, low mileage, will trade equity for good used car. PAUL J. TELLES, JR. Reply in writing to Northrop News, Box 2336. C

SHARE HOME, couple with or without children to share 3-bedroom home in exchange for part of expense and child care nights. D. E. BERRY. Reply in writing to Northrop News, Box 2329. C

CADILLAC, 1950 Fleetwood, for 30' to 36' cruiser, good condition, twin screw preferred, will pay difference. H. A. WOODCOCK. Reply in writing to Northrop News, Box 2322. C

FUR STOLE CAPE, worn very little and in excellent condition, will trade for late model sewing machine. EXbrook 7-3204. C

NASH Ambassador. 1952 4-door with Hydra-Matic, turn indicator, trade for 1953 Ford ranch wagon with Ford-O-Matic, radio, heater and turn indicator. G. KINET, OS 7-4878. C

HOUSETRAILER, equity in modern 35' Terra Cruiser, for house furniture, you take over our contract, C. H. FOURNIER, MEnlo 4-8787. C

FOR SALE OR TRADE

CAMERA, 4x5 Speed Graphic, Kodak antistigmatic f4.5 in supermatic shutter, solenoid range finder with light, flashgun, 12 cut film holders, 2 film pack adapters, hood, lens filters, standard 4x5 carrying case, $135; will trade for 12' or 13' boat and/or trailer. E. RYAN. Reply in writing to Northrop News, Box 2311. M

HOUSE, 2-bedroom, fenced yard, venetian blinds; will trade my equity for housetrailer over 25'. furniture for sale if wanted. BETTY TIDWELL, TOrrey 7-9910. M

PUPPIES, AKC — registered and pedigreed cocker spaniels, $25 each; also 3 young Saanen milk GOATS, $25 each; will trade for anything of equal value. LESTER C. DICKSON. Reply in writing to Northrop News, Box 2307. M

LAND, 79 acres in Colorado, 4-room house, 40 acres in cultivation, 15 acres alfalfa, will take good housetrailer as part payment. H. L. ANKENMAN, OSborne 6-4857. M

HOUSETRAILER, equity in modern 35' Terra Cruiser, for house furniture, you take over our contract, C. H. FOURNIER, MEnlo 4-8787. C

KITTENS, champion pedigreed show stock, Manx, also Siamese, no half breeds, sell or trade for any thing of value or labor, OSborne 6-7723. M

LOT, Big Bear, three blocks from Peter Pan Woodland Club, membership with lot, $675 full price—approximately $250 down, $15 monthly payments. Would consider trade for pick-up truck truck. OS 5-1915. M

FOR SALE OR TRADE

PIANO ACCORDION, 120 bass Italian, used only four months, lessons, cost $265, will sell for $150, or trade for motorcycle of same value, SCOTT CRESSEY, JR. Reply in writing to Northrop News, Box 2316. M

SPORT PLANE, PT22 Ryan, A&E, completely overhauled and rebuilt by licensed shop, ship enameled white with red trim, $1350, or trade on PA11 or PA12 in top condition. JOHN K. DAWSON, MEnlo 4-7762. M

HOUSE, 3-bedroom stucco, hardwood floors, tile bath and shower, large kitchen and separate dining room, thermostat heat, double garage, fenced yard, 2 years old, $1700 down. Will consider late model truck as part down payment. TERRY RUTH, NE 8-5239. M

HOUSE, cedar roof 2-bedroom home, Compton, 1000 square feet, R-2 county area, attached garage, ceramic tile kitchen and bath, oak floors, fibreglass resin outside paint 1954, schools close, 50x150 fenced, trade equity for $5000 boat, $9600, small down, J. DUBA. Reply in writing to Northrop News, Box 2321. M

HOUSE, 3-bedroom, in North Torrance, corner lot, 3½ years old, all large rooms, laundry room, over 1200 square feet of floor space, beautiful lawn front and back, almost new redwood fence, convenient location, accept late car as part down payment, terms, $8950. F. P. CARUSO. Reply in writing to Northrop News, Box 2320. M

CHEVROLET, 1951, club coupe, radio and heater, nice two-tone green, $950, $250 down and payments of approximately $40 per month, or will trade or sell equity. C. M. LaTENDRESSE, OR 2-4813 after 5 p.m. M

TRAILER, $1400 equity in 1952 eastern-built trailer, 22' all-aluminum, shower-toilet, hot water, fine condition, best reasonable offer, regular payments $51 month. JOHN C. DEWITT. Reply in writing to Northrop News, Box 2334. M

RANGE, Kenmore deluxe electric, used very little, cost $349.95, will sell or trade, $175; very expensive Aelo DIATHERMIC MACHINE, portable, $500 or make offer, will trade for cabin cruiser. L. F. PERKINS. Reply in writing to Northrop News, Box 2338. M

LOTS, two beautiful lots at Lake Arrowhead, excellent location, near Cedar Glen and on new improved road; lots are side by side, 70'x120' in size, and adjacent to a new $20,000 home, many pine trees, lights, gas, water available, $1050 each, discount for cash, terms or trade. DON R. LYNCH. Reply in writing to Northrop News, Box 2337. M

FREE

GAS KILN, ceramic, hobby size. MARGARET SELL, OR. 7-8330. D

KITTENS, nine, male and female, 6 to 9 weeks old, call JUSTINE VAN BROCKLIN, OR. 8-1668. D

RENTALS OFFERED

APARTMENT, 2-bedroom, almost new, 4 rooms newly decorated, garbage disposal, venetian blinds, individual garage, near Imperial Village shopping center. A. F. JOHNSON, MEnlo 9-4166 or OSborne 5-4988. E

BUNGALOW COURT to share with young woman, transportation available to and from Northrop. JANICE MILEWSKI, PRospect 4598 after 6 p.m. E

HOUSE, 5 rooms, two people or couple preferred, unfurnished, $40 month. E. P. UHL, CA. 8958. E

ROOM, gentleman preferred, $7 per week, R. J. VASELEW, PLeasant 2-1152. E

APARTMENT, new 1-bedroom, unfurnished, Manchester-Vermont shopping area, $50 per month, TW. 6332. E

SHARE HOME, one or two girls to share new home. close to Northrop, private bedroom, $50, JOY CLARK, ME 9-3685. E

HOUSE, 2-bedroom. furnished, utilities paid, gardener, excellent location in Mar Vista, near stores, schools, etc., $125 per month, RICHARD J. BARRY, EXbrook 7-2527. E

HOUSE, modern 2-bedroom, $100 per month on lease, no children or pets, available July 1, EXbrook 7-3204. E

APARTMENT, modern, newly furnished, pleasant atmosphere, 5 minutes from Northrop on Crenshaw, share with congenial man, 20 to 30, $45 per month, CAM GARCIA, ORchard 1-9267. E

APARTMENTS, like new. furnished and unfurnished, $65 and up, walk to work, MARTHA LAMOUREUX. Reply in writing to Northrop News, Box 2315. E

ROOM in private home, near Plant One, private entrance, ideal for young married couple, kitchen privileges if desired, reasonable, GEORGE A. BELL, OS 6-5927.

RENTALS OFFERED

APARTMENT, one-bedroom, garage, electric range furnished, child welcome. $60 month, A. M. KUEGELMAN, AX 3-9792. E

ROOM AND BOARD for two gentlemen, share same room, twin beds, tub and stall shower, lunches packed, ten-minute drive from Northrop. ME 4-7213. E

HOUSE, 3-bedroom, 3 minutes to Northrop, available July 1, $85 month. WILLIAM E. BRENNAN, OSborne 5-3884.

ROOMS, for young men, single beds, two per room, private kitchen and bath, modern, everything furnished, two miles from Northrop on car line, $10 per week. KENNETH K. KENNEDY, OR 7-0937. E

DUPLEX, unfurnished, large rooms, 2-bedroom, adults, close to Northrop, near shopping area, $85 month. ALPHA MIERSCH, PL 4-0778 evenings. E

HOUSE, 3-bedroom, close to Northrop, will be available July 1, $70. C. A. MOLSEED, FA 9-1060. E

HOUSE, two years old, southwest edge of Inglewood, corner lot, large yard, near grade school, children welcome, fireplace, three bedrooms, Pullman bath, dining room, kitchen wired for electric range or gas, service porch, oversize two-car garage, available in August; can be rented partly furnished, $125 monthly. W. S. COOK. Reply in writing to Northrop News, Box 2326. E

APARTMENT, nearly new, unfurnished, front, one-bedroom, garbage disposal, garage, near markets and shopping districts, $69.50 per month. VERNA MUIR, MEnlo 4-0696 after 4:30 or Saturday or Sunday. E

APARTMENT, like new, modern, 2-bedroom, adults, no pets, garage, garbage disposal, patio, barbecue, close to beach and stores. G. GRANDSTAFF, FR 9-4041. E

APARTMENT, $60, large one-bedroom, children welcome, close to Culver Center shopping district. VE 8-6175. E

HOUSE, 1-bedroom, partly furnished, garage, 15 minutes from Northrop in Hawthorne, $60 per month. OSborne 6-1856. E

HOUSE, unfurnished 2-bedroom, with garage, 15 minutes from Northrop in Hawthorne. OSborne 6-1508. E

HOUSE, 2-bedroom, $65. MARY BULTMAN, PL 8-5020. E

APARTMENT, 1-bedroom, unfurnished, garage, adults, near Sepulveda & Venice Blvd., $65. R. LOCKWOOD. Reply in writing to Northrop News, Box 2335. E

HOUSE, large 8-room, 3-bedroom, garbage disposal, dishwasher, central heat, 1½ baths, garage, quiet residential area, but near school and shopping center, short driving distance to Northrop, $125 per month, water paid. EDWIN M. SKINNER, AXminster 1-3882. E

APARTMENTS, ready July 1, new, unfurnished, 1-bedroom, sliding doors, large closets, select hardwood floors, thermostat heat, tile, Waste King garbage disposals, built-in TV antenna, garages, no pets, 4 blocks from Northrop. CECIL CALLIHAM, PL 5-6957. Phone OS 6-8584 after 5 p.m. E

HOUSE, two-bedroom, unfurnished, children welcome, $80 per month. OTIS TEAGUE, FR 9-2571. E

RENTALS WANTED

HOUSE, 2 or 3 bedroom, in Hawthorne. SHIRLEY DELGADO, OSborne 5-5752. F

HOUSE, one or two bedrooms. elderly couple, Morningside district preferred, no pets, $60 to $75, G. W. FAILOR, ORchard 1-2413. F

VACATION TRAILER, approximately 15', for 17 days beginning July 22. ELSIE M. LOWE, MEnlo 4-0252. F

APARTMENT, furnished, $60-$65, KATHLEEN EMGE, MEnlo 9-2519. F

APARTMENT or small house, 1-bedroom, unfurnished, in or around North Inglewood or Hawthorne area. C. M. LaTENDRESSE, OS 5-4910 after 5 p.m. F

HOUSE, 2 or 3-bedroom, unfurnished, by June 20 or July 1, $70 to $75 per month, best references. W. E. GILLUM, MEnlo 9-3823. F

ROOM and BOARD for mother and two children; also care of children during day. Contact JO ROTH, Ext. 2010. F

CHILD CARE OFFERED

CHILD CARE, all ages, handy to plant, hot lunches, naps, big fenced yard, guarded porch, to 2 years, $15 per week; school age, $10; pre-school age, $12.50. OS. 6-6566

CHILD CARE, day and swing shift, all ages, but prefer infants under 2 years. Reply in writing to Northrop News, Box 2309. G

SUNRISE DAY NURSERY—Licensed, ages 2 to 10, days, swing shift, fenced play yard, hot lunches, snacks and naps, close to all aircraft plants; register now for school vacation. For further information call, OSborne 6-1786. G

TODDLER'S HAVEN—Child care for children from 2 to 10 years of age. Good food, fenced play yard. naps if desired and snacks. For further information call OSborne 6-6566. G

CHILD CARE, experienced, fenced yard, hot lunch, $12 week, SHIRLEY J. HISLE, OS 6-9655. G

Going My Way

(Continued from Page 4)

RIDES WANTED

7:30 a.m. — 5:15 p.m.

(Zone 14)

RODEO RD. & LA BREA, Los Angeles. W. VOKES (3230-526, Ext. 553, AX 3-8993. 4-14

PRAIRIE & ARBOR VITAE, Inglewood. GEORGIA SIGURDSON (3232-834, Ext. 572). 4-14

8:00 a.m. — 4:45 p.m.

(Zone 2)

NORMANDIE & 90TH PL., Los Angeles (47). LOUIS FRANK SANDOVAL (5508-171, Ext. 2230), PL 2-0022. 5-2

3:45 p.m. — 12:15 a.m.

(Zone 1)

ADAMS BLVD. & ARLINGTON AVE., Los Angeles. WILVESTA MORGAN, JR. (5501-403 ,Ext. 2200), AX. 3-8664. 6-1

(Zone 6)

ANAHEIM & CEDAR AVE., Long Beach. DON GALVIN (5501-268, Ext. 2200), L.B. 700-610. 6-6

4:45 p.m. — 1:15 a.m.

(Zone 1)

LOS FELIZ & SAN FERNANDO RD., Glendale. ANTHONY S. KOLAYA (5930-279, Ext. 2498), CI 3-3048. 8-1

RIDES WANTED

4:45 p.m. — 1:15 a.m.

(Zone 3)

GARVEY & PUENTE AVE., or Glendora & Valley Blvd., West Covina. (Interested in car pool only in vicinity of Baldwin Park, Covina, Puente). GEORGE PRESLEY (5587-217, Ext. 2236), ED 6-5204. 8-3

PACIFIC BLVD. & SLAUSON, Huntington Park. RONALD DITTMER (5502-220. Ext. 2741), LUdlow 1-5290. 8-3

(Zone 4)

BRYSON & TWEEDY BLVD., South Gate. BETTY KELLY (5352-226, Ext. 2382). 8-4

IMPERIAL & WOODRUFF, Downey. WILLARD M. DENNIS (5373-420, Ext. 1488).

(Zone (5)

WOODRUFF & ROSECRANS, Bellflower. HARVEY E. OLSON (5620-285, Ext. 2233).

Miscellaneous (Split Shifts)

(Zone 10)

PACIFIC COAST HIGHWAY & BERYL, Redondo Beach. (Hours 4:15 to 12:45). DONNA ADAIR (9330-274, Ext. 1471), FRontier 4-0703. 10-10

PALMDALE
Miscellaneous (Split Shifts)

Q & 40TH, Palmdale. (Interested in car pool). J. T. DENNY (H5820-366).

CHILD CARE WANTED

CHILD CARE, live in, five-day week, second shift, $15 week. BOBBIE S. NOBLE, NE 2-8789. H

CHILD CARE, for second shift, to live on or off the premises, price open to discussion. PATTI FRIEND, FRontier 4-5519. H

LOST

WRIST WATCH, oyster make (Swiss), in rest room at training barracks about 12:30 a.m. night of 5-26-54; reward if returned, keepsake. E. V. STEVENS, OR 7-8042. J

PERSONALS

RIDERS WANTED, 3 or 4 to share gas and oil expenses to Des Moines, Iowa, July 18, one-way trip. Will have to be contacted before July 3. JOHN CREEK, L.B. 70-8062. L

RIDE WANTED to Alabama or vicinity around July 1, will share expenses, JOHN W. CUMMINS. FRontier 7-1037. L

RIDERS WANTED to Lexington, Kentucky, leaving on June 18, EDWARD L. WARFIELD. Reply in writing to Northrop News, Box 2312. L

RIDER WANTED, girl, to Iowa, FR 2-4014.

Info On Softball Teams' Standings, Time, Place

At the end of the first few weeks of Softball League play, team standings on the day shift are as follows:

American League

	Won	Lost
Dept. 5503	2	0
Dept. 5200	1	0
Dept. 5587	2	1
Dept. 5530	1	2
Dept. 5544	1	2
Dept. 3232	0	2

National League

	Won	Lost
Dept. 7310	2	0
Dept. 5620	2	1
Dept. 5140	2	1
Dept. 9340	2	1
Dept. 5300	1	1
Dept. 5501	1	1
Dept. 3230 #2	1	1
Lynwood	1	2
Dept. 5508	0	2
Dept. 3230#1	0	2

Pacific Coast League

	Won	Lost
Dept. 5622	3	0
Dept. 3410	3	0
Dept. 5515	2	1
Dept. 5518#1	2	1
Dept. 5518#2	1	1
Dept. 5588	1	1
Dept. 3460	1	2
Maple St.	1	1
Dept. 5509	0	1
Dept. 3230#3	0	2
Dept. 3350	0	3

With fourteen teams in competition on the night shift softball roster, the following standings have been recorded:

	Won	Lost
Dept. 5515	3	0
Dept. 5620	3	0
Dept. 5360	2	0
Dept. 5437	1	0
Dept. 5589	2	1
Dept. 5373	1	1
Dept. 5584	1	1
Dept. 9340	1	1
Dept. 6325	1	1
Dept. 5524	1	2
Dept. 5502	0	1
Dept. 5534	0	2
Dept. 7220	0	3
Dept. 5587	0	3

NRC Softball play is in progress daily. Night shift teams play at 10:30 a.m. daily at Rosecrans Playground and on Monday and Tuesday at Sportsman Park (Western at Century).

Day shift teams compete on Monday, Tuesday and Thursday at Rosecrans Playground and on Wednesday and Friday at St. Andrews Playground. All day shift games start at 6:00, 7:30, and 9:00 p.m.

Many close games are being played, according to Club Commissioners Tom White and Paul Crowley and all Norcrafters are invited to watch some exciting ball games.

ROCK HOUNDERS GET SCIENCE ON TRAIL; U-METAL

Uranium and metal prospecting will be the subject of the June 23 meeting of the Gem and Mineral Club, to be held at 7:30 p.m. in the NRC Clubhouse.

Various manufacturers will be present to demonstrate Geiger counters, scintillometers, sonomatic devices, and gold and other metal detecting equipment.

Color films showing various types of rock strata in which metals are found will also be presented.

Rock hounds are also in the process of organizing a Pebble Pup club for youngsters between the ages of 6 to 12.

All interested Norcrafters contact PA&S, extension 2784.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information on activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.

BOWLING (day)
Harold Guess, commissioner
Summer leagues now in progress.

BOWLING (night)
Tony Cardozo, commissioner
Summer leagues now in progress.

BRIDGE CLUB
Walt Barby, acting commissioner
Meet 2nd and 4th Tuesday of month at NRC Clubhouse. Next meeting June 22.

CAMERA CLUB (day)
George Fuller, commissioner
Meet every other Friday evening NRC Clubhouse, 7:30 p.m. Next meeting June 25.

CAMERA CLUB (night)
Adam Slusarz, commissioner
Meet every other Saturday evening, NRC Clubhouse. Next meeting June 26, 7:30 p.m.

FENCING CLUB
Ray Beste, commissioner
New group now forming. Will meet every Tuesday evening at 8:00 p.m.

GEM AND MINERAL CLUB
Art Westermann, commissioner
Meet fourth Wednesday of each month at the NRC Clubhouse. Next meeting, June 23, 7:30 p.m.

GOLF CLUB (day)
Jim Milne, commissioner
Twilight leagues at Western Ave. and Alondra Park Golf Course each evening Monday through Thursday.

GUN CLUB
Dick Booth, commissioner
Meet every other Tuesday, 7:30 p.m., NRC Clubhouse. Next meeting June 22.

MIXED CHORUS
Ken Schumacher, commissioner
Meet every Wednesday evening at NRC Clubhouse, 7:30 p.m.

MODEL RAILROAD CLUB
Gene Boggess, commissioner
Meet every Thursday evening, 7:30 p.m. 4411 W. Redondo Beach Blvd.

PHILATELIC CLUB
George Borton, commissioner
Philatelic and Numismatic combined club meets 2nd and 4th Monday each month. Next meeting June 28, NRC Clubhouse, 7:30 p.m.

RADIO CLUB
Meet 1st and 3rd Tuesday of each month at NRC Clubhouse Annex, 7:30 p.m. Next meeting July 6.

RIDING CLUB
Cliff Snudden, commissioner
Moonlight Ride on Saturday evening, June 19, 8:00 p.m. Circle Bar Ranch. Reservations must be in PA&S by Thursday, June 17.

SALT WATER FISHING (day)
Bill Dean, commissioner
Boats will run July 17, Aug. 14, Sept. 4. Fishing license can be acquired at PA&S.

SALT WATER FISHING (night)
Chuck Bija, commissioner
Boats will run July 18, August 15, and September 5. Fishing license can be acquired at PA&S.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next shoot June 26. Members interested in reloading ammunition meet at the NRC Clubhouse, Monday evenings.

SKIN DIVING
Gordon Grant, commissioner
Next meeting will be June 21, NRC Clubhouse Board Room.

SOFTBALL (day)
Tom White, commissioner
League play under way Monday Tuesday & Thursday, Rosecrans Playground; Wednesday and Friday, St. Andrews Playground. Games begin: 6:00, 7:30 and 9:00 p.m.

SOFTBALL (night)
Paul Crowley, commissioner
League play in progress daily, Rosecrans Playground. 10:30 a.m.; Monday and Tuesday at Sportsman Park (Western at Century). All games—10:30 a.m.

SPORTS CAR
Doug Hugill, commissioner
Meet second Thursday each month, NRC Clubhouse. Next meeting July 8, 7:30.

SQUARE DANCING
Fred Brant, commissioner
Meet at Swimms Barn, 15016 Daphne St., Gardena, from 7:00 to 10:00 p.m. Meet 1st, 2nd, 4th and 5th Sundays.

SURF FISHING
Ralph Schamp, commissioner
Meet NRC Clubhouse, 7:30 p.m., 1st Tuesday. Next meeting July 6.

SWIMMING
Leuzinger Gym open Wednesday and Friday afternoons, 4:30-6:30, beginning June 16. No admission charge.

TOASTMASTERS 212 (day)
Ernie Boren, representative
Meet every Thursday eve., 6:30 p.m., Western Club, Gardena.

TOASTMASTERS 1398 (night)
Ned Reese, representative
Meet every Thursday, 12:30 p.m., at Bill's Steakhouse on Crenshaw Blvd., just north of Manchester.

TROPICAL FISH CLUB
Orval Coley, commissioner
Meet fourth Tuesday of month, NRC Clubhouse. Next meeting June 22, 7:30 p.m.

TOURNEY LOOT TO KEGLERS

NORCRAFTERS TAKE STRONG SHARE

Northrop bowlers, nearly two-score strong, were pitted against 132 other industrial teams, as well as some 200 separate entries in various events recently, and stepped from the fray with a strong share of the top 17 money and trophy-taking places.

Occasion was the seventh annual Western Industrial Recreation Association Bowling Tournament, held over weekends of May 8-9 and 22-23 at Trojan Bowl.

Team winners, all from Northrop-Hawthorne but one, were —

Microminds, second, winning besides trophies, $85 with a score of 2.693. (Top tally was 2,754, U.S. Rubber).

Also taking trophies as well as money was the Graveyard Six, for kegling 2,664 — $50.

Anaheim Division wrapped up fifth capture — just one below the trophies — with 2,654—$35.

Soreheads took eighth. Twenty-five dollars for 2,634.

Alley Cats, in a tie for ninth place with 2,613, won $20.50.

Number 17 placing, good for $13.75, was taken by the Dodgers.

Norcrafters also came through well in men's doubles events. Ronald Marineau and Jack Causey placed third; in fifth were Neal Elder and Roger Card; sixth were Joe Burianek and Ray Colgan; seventh, Phil Reeder and Art Luedeke; eleventh, Jim Chamberlain and Ed Blado. Lynwood Norcrafters Jim Dower and Joe Martin tied for twelfth place.

In the all-event tussle, Jack Causey bowled his way through to sixth, Neal Elder captured fifteenth, and Art Luedeke, seventeenth.

July Fourth Cruise Set For Sailors

Following in the wake of its highly successful Memorial Day cruise, the NRC Boat Club announces plans for a July 4 cruise to Sandy Beach, Catalina.

All boat owners are again invited to register for the weekend cruise, and chartered boats will be provided for sailors sans ships.

Planned activities on the island include fishing contests with prizes, dinghy contests, steak dinner, wiener bake and beach party, skin diving, water skiing, and a treasure hunt.

Boats will meet at 7:00 a.m. on Saturday, July 3, at the San Pedro lighthouse. Northrop-furnished burgees will be distributed to all members of the fleet. Radio contact systems have been worked out for protection of small boats.

Deadline for registration of boats and reservations for space on the charter boats is June 25. Both registration and reservations may be made at Personnel Activities and Services, Plant One.

Elmer Chiodo, Boat Club commissioner, has announced that small boat owners are especially invited.

In addition to radio contact system for better protection, flotillas will set cruise speed in accordance with slower boats.

PA&S offices have additional information.

LEUZINGER POOL AVAILABLE FOR SUMMER PLUNGES

NRC announces that beginning June 16 and every Wednesday and Friday during the swimming season the Leuzinger High School Gym swimming pool will be available free to Norcrafters between 4:30 and 6:30 p.m.

Wednesday has been designated for "adults only" and on Friday both children and adults are welcome. Lifeguards will be on hand.

Pool rules require bathing caps for the ladies; swimmers should bring their own towels.

NRC KNITTING CLUB SCHEDULES PRO INSTRUCTOR FOR SUMMER MEETINGS

Professional knitting lessons by a top-flight instructor will be available to all NRC Knitting Club members beginning June 22, according to Nina Shannon, club commissioner.

Ann Oswald, El Camino College knitting instructor, has been secured by the NRC to give free instructions to all ladies interested in developing this skill.

Club meetings are held each Tuesday from 7:30 until 9:30 p.m. in the NRC Clubhouse.

Plans are under way to enter Club members' projects in the Hawthorne fair and exhibits at other local fairs are planned for the future, according to Nina.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Dorothy Hodgson, Personnel Activities and Services, 2784. NRC Clubhouse is located at 175 N. Hawthorne Boulevard.

BALLET CLASS
Lessons scheduled every Thursday at 8:00 p.m., NRC Clubhouse. Instruction provided at no charge.

BOWLING
Jean Ward, commissioner
League now in progress at Hawthorne Bowl, Tuesday, 6:30 p.m.

DINNER CLUB
Cathy Waffel, commissioner
Monthly dinner meetings.

FLOWER CLUB
Kay Stuart, commissioner
Meet second Tuesday of each month, NRC Clubhouse, 7:30 p.m.

GOLF CLUB
Golf lessons now in progress every Tuesday, 7:00-8:00 p.m., Culver City Golf Course, Jefferson at Sepulveda. Lessons are $1.00 plus $.40 for bucket of balls. Golf clubs furnished free.

INTERIOR DECORATION
Meet every Thurs., 7:30 p.m. at NRC Clubhouse, 175 No. Hawthorne Blvd. Lecture-demonstration on principles of interior decoration commencing Thursday, June 17.

KNITTING CLUB
Nina Shannon, commissioner
Meet Tuesday, 7:30 p.m., NRC Clubhouse. Instruction provided.

SOFTBALL (day)
Donna Avazian, commissioner
Season now in progress at Ladera Park, 6027 Ladera Park Ave., 7:30 to 9:00 p.m.

SOFTBALL (night)
Meet every Tuesday and Thursday, 11:00 a.m. to 1:00 p.m.

SENIOR GIRL SCOUT TROOP (MARINERS)
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7:00 p.m., Scout cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Peggy Barber, representative
Meet first and third Thursday, NRC Clubhouse, 5:00 to 6:30 p.m. Baby sitting provided if necessary.

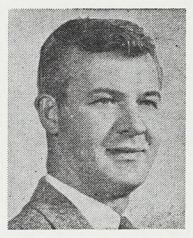
Links Beckon Women

TEE TIME—. Grace Dominick, Missile Guidance, hits a long drive while Rita Ewart, Motion Pictures, looks on. Girls are members of NRC Ladies Golf club. Club lessons are now in progress every Tuesday from 7:00 until 8:00 p.m. at the Culver City Golf Course, Jefferson at Sepulveda. Professional instruction is provided and golf clubs are furnished free of charge. Lessons are $1.00, plus 40 cents per bucket of balls. Contact Personnel Activities & Services for details.

President's Remarks On Sports Cars

By JOE CARVER
President
Northrop Recreation Club

I was very interested to learn the other day that the NRC Sports Car Club was the first club of its kind to be formed in an industrial plant in the United States. Sort of another Northrop first.



I thought that was pretty good. Especially considering the fact that in just the two short years since the club had its first meeting—April 30, 1952, to be exact—similar clubs have been springing up everywhere.

The club seemed destined to be successful. The first meeting drew 49 people and the club membership now numbers almost 100! But new members are always welcome.

The Club constitution lists the object of the group—"this organization has been founded for the purpose of forwarding common interest in sports cars and related subjects, in a spirit of friendliness and good fellowship."

In keeping with this objective, the club officers have made every effort to plan a well-rounded program that will include all interests of all members.

As a result, the events range from the highly technical runs, which require a navigator and stop watch calculations, to the family outing type (such as the one coming up on June 27—see the notice in this issue) which will allow the members to bring wives, children, and even the family pup if they want to.

Don't let the name fool you, either. Sports cars can range all the way from the lowest-slung foreign import to the family jalopy. The basic club membership requirement is a sincere interest in things mechanical.

In addition to the actual driving events, the club program includes talks by many well-known sports car experts and movies of exciting sports car events.

BATTLE OF YEAR LOOMS IN CLASH BETWEEN SEXES

A battle of the sexes will take place on the softball diamond on Sunday, June 27, at 2:00 p.m., when the NRC Girls' softball team, days, will play the night shift men's 5373 team at the Rosecrans Playground.

The pitcher and catcher of each team will switch, so that the girls' team battery will join the men's team and vice versa.

All Norcrafters are invited to come out and cheer their favorite team to victory.

Donna Avazian, Girls' Softball Team comish, advises that there are still team spots open. Girls may call PA&S, extension 2784, for details.

THE Northrop Scene BY DAY AND NIGHT

SEEDLESS AVOCADOES are curiosities of vegetable world, much in demand by restaurants. Odd fruits, which are produced when blossoms are not fertilized, were grown on ranch of Frank Brannon, general foreman, Advanced Production, nights. Dorothy Poe holds conventional avocado while Brannon and Clare Adams view smaller seedless type. Girls are secretaries, factory manager's office, night shift.

Patience Is Rewarded

FIRST WIN —. The day shift NRC Surf Fishing Club walked off with the first month's possession of the new Intershift Perpetual Award for Surf Fishing. Ralph Schamp, Club comish, is shown accepting the trophy from Larry Baird, PA&S. In monthly meets between day and night shift clubs competition is for most pounds of edible fish caught. Club holding trophy most months has permanent possession. Boyd Hyatt, night shift comish, and Ralph invite new members.

A Big Fish, Senor - - - - !

CLOUD SEVEN —. One happy fisherman is Frank Albitz, Plastic Shop, nights, shown beside 198-pound marlin which he hooked on recent vacation trip to La Paz, Baja California. Big one was taken on medium weight tackle with a one-foot Catalina flying fish used for bait. Frank, who tilts scales at 120, battled the 198-pound fighter for 37 minutes before landing it. "I'm going back for a bigger one," says he.

BALLERINAS—. NRC Ballet Dance class members pose for photographer during recent class meeting. Group, under the direction of Donald Journeaux, former Sadler's Wells choreographer, meets in NRC Clubhouse at 8:00 p.m. every Thursday. Lessons include modern ballet instruction and are free of charge to all Norcrafters and families. Fast-growing enthusiasm for modern dance has made this one of the most popular of NRC ladies' activities. Classes are open.

High Iron Man

PCR NMRA—! Larry Grabert, Photo department, displays vast array of prizes won at recent annual Pacific Coast Regional and National Model Railroad Association meet at California Hobby Show. Club has over 9,000 members and is international in scope. Prizes totaled five first place and three second place awards in both H. O. and narrow gauge class. Larry builds models from actual railroad builders' blueprints and specializes in old style rolling equipment.

OPEN HOUSE ON JULY 10

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California Wednesday, June 30, 1954

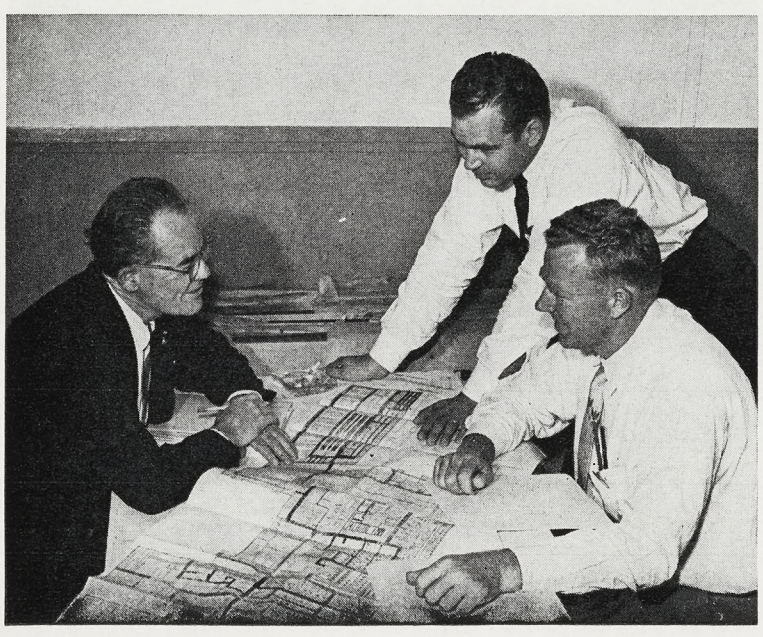
On Ice-cap Duty

ALASKAN APPROACH to continental United States is defended in the air by men of the Alaskan Air Command, whose commanding general, Joseph H. Atkinson, is shown at left in photo. General Atkinson stands before an F-89C with Lee Johnson, crew chief, and Colonel Orville Erdmann, CO, both of the 65th Fighter Interceptor Squadron; and Hank Waklee, Northrop tech rep assigned to the 65th. D-series Scorpions are now going to the northern outposts for top-of-world defense duties. For brief news item concerning another Alaskan squadron, see Down Range on page 2.

MAYOR PROCLAIMS NORTHROP DAY

City, Plant Planning

HAWTHORNE PLANS—. Community residents and businessmen are going all out in cooperation with "Northrop Day" Open House plans. This trio met recently to discuss developments: John Baumgartner, president of local Chamber of Commerce; Al Cline, director of Public Relations (co-chairman of event with John B. Clark, director, Industrial Relations); and Hawthorne Mayor Vic Zaccaglin. Latter proclaimed July 10 "Northrop Day" (see this page).



Community Participates In Planning

The city of Hawthorne is planning to enter into the spirit of "Northrop Day" on Saturday, July 10, wholeheartedly, if indications of plans being made last week are correct.

Mayor Vic Zaccaglin has proclaimed the day of the open house "Northrop Day" in the city of Hawthorne (see proclamation in next column), and the Hawthorne Chamber of Commerce and local newspapers have scheduled cooperative ventures involving community businessmen in the celebration.

A great number of local merchants are planning "F-89 Sales", one of them having announced his intention to place 89 items in his department store on sale for 89 cents each!

The businessmen are planning to decorate stores in aircraft motif, with the prime emphasis on the F-89D "Grand Slam" Scorpion.

The Advertiser Press, Ltd., publishers of the Hawthorne Press and other community newspapers, has scheduled a special edition of the Press to commemo-

(Continued on Page 4)

Proclamation From the Mayor

WHEREAS Northrop Aircraft, Inc., Hawthorne, California, has invited residents of this community to help celebrate its fifteenth anniversary with a public open house and other festivities at its F-89D production plant on July 10, 1954, from 10 a.m. until 4 p.m. and;

WHEREAS local businessmen of this community have exhibited their interest in this celebration by sponsoring special sales and promotional events and;

WHEREAS Northrop and Hawthorne have grown side by side in size, scope of activity and prestige during the past 15 years;

BE IT THEREFORE RESOLVED THAT July 10, 1954, be designated "Northrop Day" throughout Hawthorne for the purpose of celebrating the fifteenth birthday of Northrop Aircraft, Inc.

Hon. Victor Zaccaglin
Mayor of the City
of Hawthorne
Hawthorne, California

Theme to be Fifteen-year Anniversary

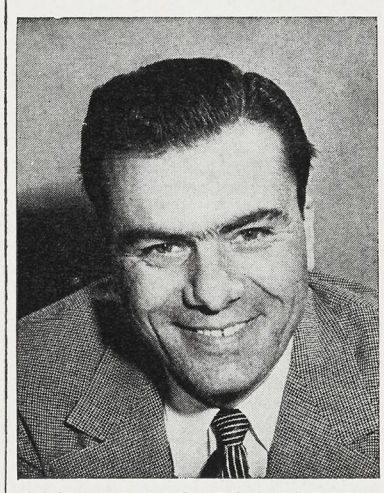
Plans for the entertainment and edification of upwards of 30,000 persons, expected to attend Northrop's 15-year anniversary Open House, reveal the following schedule for the day's activities:

Scorpions from Ontario will herald opening of the program with routine functional test flights over surrounding local communities in the morning hours.

A group of fourteen 15-year Norcrafters will receive their diamond-studded commemorative pins from Whitley C. Collins, president and chief executive officer, in the president's office as the opening ceremony of the day.

This is the first public open house since the Northrop ten-

(Continued on Page 4)



MAYOR VIC ZACCAGLIN

NORTHROP PLANS—. Open House tour route and placement of booths are the concern of the group shown in discussion in this photograph. At left is Frank Hollister, Manufacturing staff, who is coordinating work of Open House committee and division and facility representatives. Center: Ed Petoskey, assistant plant engineer; and, at right, J. C. "Whitey" Gillibrand, general foreman, Plant Maintenance. Latter department members will help erect displays, booths.

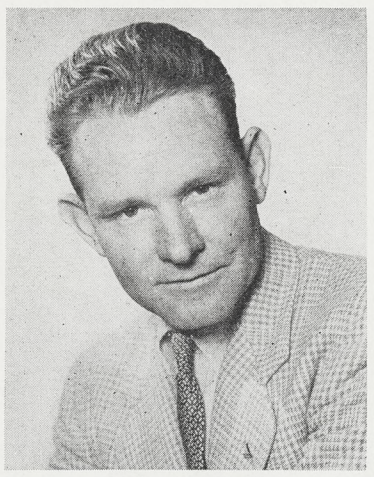
HOW TO GET THERE

(SEE HAWTHORNE MAP, PAGES 6-7)

Down Range . . . . . .

Folk lore with an agricultural slant is the revelation by Frank Cunningham, Edwards Inspection, that commercial garlic planters in Antelope Valley cut seed cloves squarely in two before planting—thus getting twice as many plants.

Gene Boggess, elected NRC sergeant at arms, takes over in spot recently vacated by Glenn Jackson. Thirteen-year Norcrafter,



GENE BOGGESS

Gene was formerly Model Railroad Club commissioner.

A twenty-seven-pound, four-ounce channel bass taken from the surf at Patrick Air Force Base earned James McMahon, Aircraft Services, the monthly Saltwater Fishing Award of $5. Kenny Edwards took the freshwater prize for a one-pound, 13-ounce bass caught in Kissimmee Highway Canal.

Sweepstakes winner last year, Ontario will try to repeat in All States Picnic parade on July 5, when it enters float depicting flight program at the facility . . . Theme of this year's parade: American Melodies; theme of Northrop flower-covered entry: "Come Josephine in My Flying Machine" . . . Wayne Wiggins, Bob Snider, and Ted Mueller are heading Ontario Norcrafters working on float. whose feature is wind-tunnel model Scorpion, complete with a/b sound effects plus two junior Norcrafters in Buck Rogers space suits.

Lieutenant Colonel Carroll H. Wight, commanding the 64th Fighter Interceptor Squadron based at Elmendorf Field, Alaska, became member Number 1200 of the Scorpion Squadron, organization of qualified Scorpion pilots, ROs, and observers . . . Entire squadron qualified for honor simultaneously with Colonel Wight's selection to membership.

First Day of Summer—and longest day of the year, (June 21)—was also red-letter day for Engineering division with 40 new hire engineers reporting for duty—greatest number started in one day during last three years and second-to-top record in history of division, according to Roger McGuire, manager, Industrial Relations, Engineering division . . . Graduates of 14 major U.S. universities, as widely separated as University of Washington and Massachusetts Institute of Technology, are listed—hiring was direct result of recruiting trips made by Engineering Personnel representatives.

Kiddie-Fair To Occupy O-H Juniors

At the end of the awe-inspiring tour—on Northrop Open House Day, July 10—of the grown-up world of machinery, airplanes, offices, and equipment, junior Norcrafters and their bantam-size friends will find a welcome little but big world of their own in the NRC-inspired and sponsored Kiddie-Fair.

Located in Parking Lot C at the far end of the tour line, the Fair will provide youngsters with entertainment and refreshments enough to delight every little heart—and it will all be free!

Rides will include two trains to tour the lot, two ferris wheels, an exciting rocket ship ride, a Fair-touring fire engine, two hot rod auto rides, and two chair swing rides.

Carnival spirit will be added to the festivities by the presence of three funny clowns who will provide entertainment for children and grownups alike.

There will be balloons, soft drinks, and Cracker Jack for all children.

The Northrop-sponsored Sea Scouts and Mariners will be on hand with the usual Scouting code of good deeds.

The Mariners will act as couriers for the occasion and the Sea Scouts will be "big brothers" to the small fry, helping them on and off rides and seeing that all are secure.

The Kiddie-Fair and NRC display booths are the result of planning by Personnel Activities and Services committee composed of Charles Boyle, PA&S manager; Harry Clark, assistant manager; and Eddie Truax; and by the NRC Special Events committee headed by Walt DeVore, NRC representative, with Bill Landry, representative; Dave Dyer, representative; Hal Hunsberger, NRC vice-president; and Peggy Barber, Toastmistress representative.

Norcrafters To Holiday On July 5

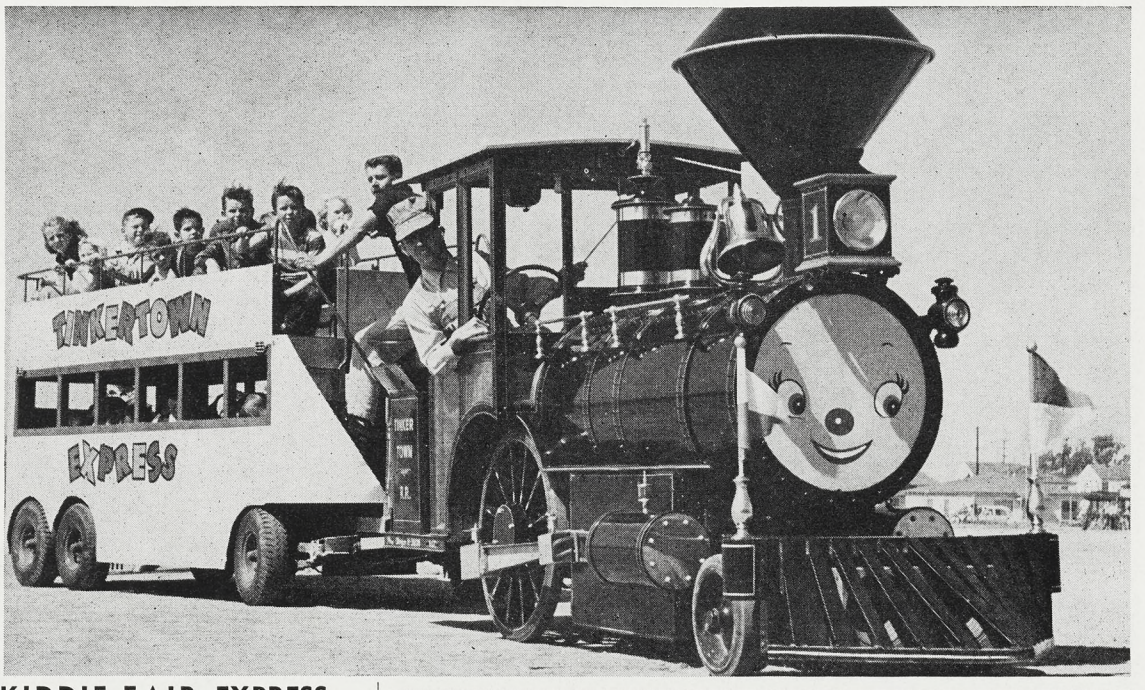
Norcrafters will observe Independence Day on Monday, July 5, as a paid holiday, with the plant closed and empty of all personnel except those requested to work by reason of production schedules or other requirements.

All hourly paid personnel not on leave of absence will receive eight hours' straight-time pay for the day, and part-time Norcrafters will get straight-time pay equivalent to their regular daily schedules.

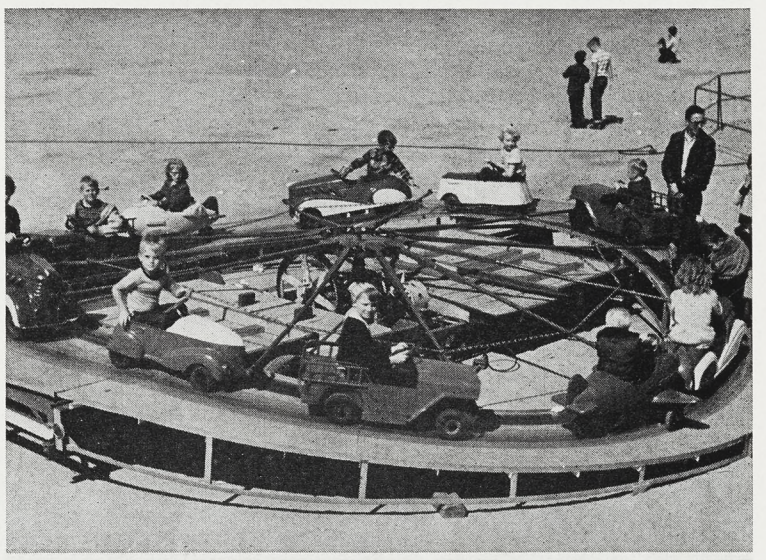
The hourly rated Norcrafters who will work on Monday, July 5, will receive straight-time pay plus the holiday pay.

The holiday is considered time worked for the purpose of computing weekly overtime of hourly paid personnel.

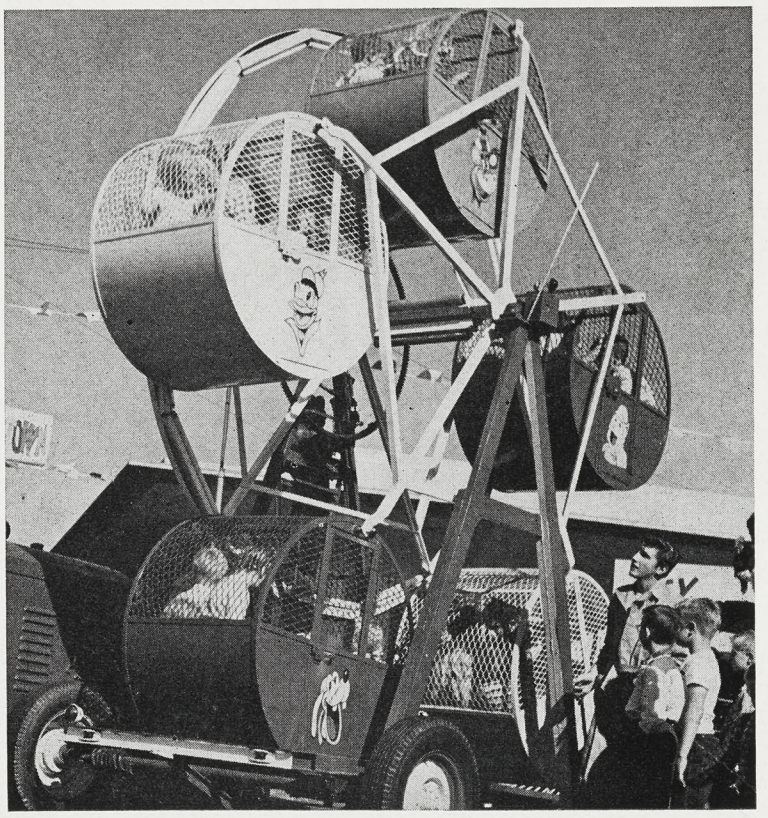
Choo-choo Trains, Ferris Wheels, Hot Rod Go-'rounds, Clowns—!



KIDDIE-FAIR EXPRESS—. Open House visitors in the younger set are invited to take a free ride on the Kiddie-Fair express pictured. Two trains and many other rides as well as refreshments and favors will be provided for the children at the end of the tour line in Parking Lot C. All rides and refreshments will be free, courtesy of the Northrop Recreation Club.



HALF-PINT HOT RODS—. In addition to the trains, kids will have chance at steering on the two auto rides provided on Kiddie-Fair grounds. NRC Sea Scouts will be on hand to act as "big brothers" to children in lifting them on and off rides. There will also be three clowns touring the grounds to lend a carnival spirit to this end-of-the-tour attraction.



AIR LIFT, JR.—. Small fry with a taste for altitude will have a chance at two ferris wheels scheduled for the NRC Kiddie-Fair. There will also be a rocket ship ride, two chair swings, and a fire engine, plus taste treats at the end of entertainment line.

Annual Fair For City Is Next Event

A gigantic parade, featuring television notables, top-notch riding groups and bands, a queen and her court, and drill teams, will highlight Hawthorne's observance of her annual Community Fair.

The fair, closely following Northrop's Open House, will be held from July 14 through 18 at City Park, located adjacent to Plant Two on the south, with the parade—slated for Saturday, July 17—on display along Hawthorne Boulevard.

George Putnam, noted KTTV news commentator, is grand marshal of the parade. Other KTTV notables, including Eleanor Hempel, Wally Sherwin and Jackson Wheeler, will also participate.

Featured among riding groups will be Long Beach Mounted Police, who led the Tournament of Roses parade last January.

Competition for the title of queen of the fair is under way now. Among contestants is Norcrafter Pat Lenzie, Special Weapons Manufacturing. On the most recent tally Pat was making a strong bid for royalty recognition—she was holding a close third spot in the balloting.

The fair is an annual event sponsored by the Kiwanis Club, with funds raised being used for the improvement of Hawthorne City Park.

Northrop News

Vol. 12 Northrop Field, Hawthorne, Calif. No. 24

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JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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CITY, PLANT COOPERATION

COMMUNITY SPIRIT IS KEYNOTE

Located as it is, in the limits of the city of Hawthorne, Northrop's activities are many times interwoven with those of the city.

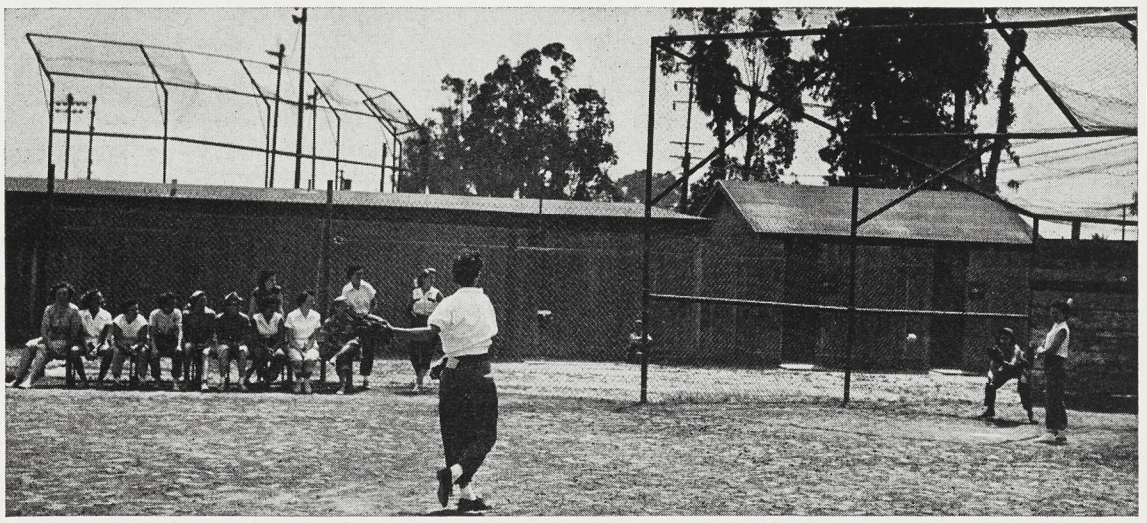
This is true in the case of recreation, for example. The NRC Clubhouse is located in the heart of town. The softball teams have occasion to practice on the greensward of City Park.

When a large celebration like the 15-year anniversary Open House comes along, it is inevitable that the city should take an interest in, and be a part of, the proceedings, for thousands of its residents are numbered among Norcrafters.

The pictures on this page highlight examples of plant-city relations and of city planning for the Open House.

SKYLINE FEATURE—. Hawthorne City Manager Meno Wilhelms points out prominence of NRC Clubhouse sign in general Hawthorne city skyline picture. Interested observers are, from left, Don Kohler, NRC Clubhouse manager; Charles Boyle, Northrop Personnel Activities and Service manager; and Technical Sergeant Richard E. Wright, 9343rd Air Reserve Squadron Liaison NCO who is stationed in Clubhouse.

FRIENDLY SERVICE—. Hal Hunsberger, Northrop Recreation Club vice-president, purchases donuts for club function from Betty Winslow. Betty and husband Dave own Winslow's Donut Shop across street from Clubhouse. Betty estimates that Club members purchase more than two hundred donuts a week from her shop. Winslow's Donut Shop is popular luncheon spot.



CITY PARK ACTION—. Northrop Recreation Club Girl's Softball team, nights, runs through batting drills during team practice session held in Hawthorne City Park. During city school session girls use park for early morning practice. Close proximity to plant makes use of the park a welcome addition to Northrop recreation program. With school children free to use park during days, girls have moved practice sessions to Ladera Park Playground. Games are from 11:00 a.m. until 1:00 p.m. on Tuesdays and Thursdays.

ADVERTISER PRESS, Ltd., plans special edition to honor Northrop Day. Here Lino Duran, machine operator, Bob Klein, city editor, and Dick Anderson, shop foreman, of Hawthorne Press, talk over plans for special issue. Completed ad pages of Hawthorne Press appear on the stone.

HAWTHORNE POLICE are extending courtesy parking privileges in area of Plant One on July 10. Chief Harry Severns, second from left, explains regulations as they exist presently to Plant Protection officers and motor officers from Hawthorne Police Department. From left: Elmer Cake, Plant Protection; Chief Severns; John Donohue, Plant Protection; and City Officers Hal Sullivan and Eugene W. Gores.

HAWTHORNE MERCHANTS plan "F-89" sales to mark fifteenth anniversary celebration of Northrop. One of local businessmen who is planning such a sale, offering 89 items for sale at 89 cents each, is Al Dexter, center, who is shown looking over Scorpion photographs with Carol Sanders and Betty Kuhn, of the Dexter department store staff. Hawthorne Chamber is assisting merchants in making plans.

Fourteen Norcrafters To Get Fifteen Year Awards

Fourteen Norcrafters, who have watched the Northrop company grow from a handful of individuals to its present large and populous status, will be awarded the first of the Northrop diamond 15-year pins by Whitley C. Collins, president and chief executive officer of the company, in his office as an opening act in the many-faceted program of the Northrop Open House, Saturday, 10 July.

These men, representing many different departments and facilities of the company, are the following (hire dates indicated):

Talmon "Tom" Chittenden — August 20, 1939—Number One Norcrafter in point of service—assistant superintendent, Materiel, nights.

Thomas H. Quayle — August 21, 1939—assistant manager, Anaheim Division.

Richard "Dick" Nolan—August 28, 1939—manager, Anaheim Division.

Robert L. "Bob" Ehinger — September 5, 1939 — manager, Engineering Personnel.

Walter T. "Walt" Gage — October 2, 1939—general supervisor, Credit Union.

Robert S. "Bob" Catlin — October 2, 1939 — director of Quality Control.

Clay B. Spencer—October 23, 1939—factory manager.

C. Paul Bonham — November 16, 1939—chief group engineer, Airframe Design, Engineering.

John J. Pfarr—November 20, 1939—assistant project engineer, Project Engineering.

Carl Raker — November 20, 1939 — superintendent, Plant Maintenance.

Roy W. Lindstrom—November 21, 1939—police captain, Plant Security and Protection.

Fred J. Baum—November 21, 1939 — Dayton representative, Dayton Office.

Melvin N. Brown—December 18, 1939 — electrician leadman, Electrical department.

Will L. Rice — December 21, 1939—assistant foreman, Plumbing department.

Tour Plan, Parking Described

Full provision has been made for handling expected crowds at the 15-year Open House celebration with all committee members and other concerned Norcrafters burning the midnight oil on completion of plans and last minute suggestions.

Doors will open to the public at 10 a.m. and throngs will file in through the newly refurbished and enlarged walnut-paneled lobby, where flagstone planters will be resplendent with blooms, as will the re-landscaped entrance to the Plant One office building.

Crowds will be routed by clearly marked signs to the extreme west end of the factory and begin their tour in the Tooling building. Route will continue eastward through Sheet Metal (where souvenir coins will be stamped and distributed), Machine Shop, wing assembly line, and the new final assembly building.

A copy of the 15-year Anniversary Edition of the Northrop News will be handed the visitors at the exit of the final assembly building, which will lead to a "walkover" Scorpion display and the display booths of the various departments, divisions and facilities, and the special Kiddie-Fair designed for the youngsters.

Company parking lots, with the exception of Lots T and B, will be open to the public, and unlimited parking in surrounding streets will be permitted, during the celebration only, by courtesy of the Hawthorne Police Department.

Norcrafters in outlying facilities who wish transportation by bus to the Hawthorne plant will be asked by department clerks to signify how many in their families will attend and hours of departure will be announced later. This includes Edwards, Palmdale, Ontario, Radioplane, Pasadena Optical Lab, and Anaheim. The round-trip bus ride will be free of charge.

Open House

(Continued from Page 1)

year celebration, and in the elapsed period many old-timers on the Northrop scene have retired from "active duty" with the company.

It is expected that many of these "senior Norcrafters" will visit the plant during this significant occasion to meet friends and former co-workers whom they have not visited in a long time, or with whom they have lost touch.

"I remember when" is expected to be the theme song of the day as always when old friends get together and reminisce on days gone by.

The program, whose details are recounted in other stories in this issue, will end at 4 p.m.

ONTARIO NINE MEETS HAWTHORNE IN NORTHROP DAY SPORTS FEATURE

Sports-minded visitors to the Open House who are making a full day of it can view a top-notch softball double-header at the Rosecrans Playground on Northrop Day, when Ontario's league-leading Scorpions battle Hawthorne in a pair of games.

First tussle at the 149th and Vermont diamond is scheduled to begin at 5 p.m., with the second following at approximately 7 o'clock.

The two facilities met a little over a week ago, and swapped shut-outs, with the Hawthorne diamondeers copping the first tilt, 1-0, and the Ontario nine bouncing back in the nightcap to grab a 4-0 win.

The Ontario squad, headed by NRC Softball Commissioner Leo Garcia, is currently heading the pack in Ontario City League play, and is one of the strongest aggregations fielded by that softball-conscious facility.

Variety of Displays Scheduled For Show At Open House by Norcrafters

A wealth of display material will be on public view during Open House, in addition to the activities and equipment which will be along the tour route of visitors to Northrop on July 10.

At presstime, it was reported by Open House committee co-chairmen Al Cline and John B. Clark, eleven divisions or departments had announced their intentions of presenting display booths, with three having "open" areas.

MAINTENANCE

Ed Petoskey, assistant plant engineer, and Whitey Gillibrand, general foreman, Maintenance, were readying maintenance crews for the task of erecting booths (in the Parking Lot "C" area south of the final assembly building) and arranging displays during the week preceding the tenth. George Holmes and his group in Purchasing were procuring the materials necessary.

Outlying facilities to be represented by displays include Anaheim, with a display of recreational activities and plant operations; Ontario, with a flight program display based essentially on the float which the facility was entering in the All-States Picnic parade July 5; Palmdale, with a display aimed at describing the advantages of Antelope Valley living; and Radioplane, with target airplane, control set-up, and engines.

OPEN DISPLAYS

Open displays are planned by Quality Control, coordinator Ed Bates reports, in the form of precision inspection equipment, including a 21-inch TV screen showing solid-casting inspection procedure.

Another "open" type display is that of the Northrop News, whose location is at the end of the Final Assembly line. Here copies of the souvenir issue will be handed out, and free home mailing will be made for visitors.

The Flight Test department has planned a simple display showing survival gear and other flight safety equipment, plus an illustrated feature showing test measurement gear. The Flight program is being coordinated by Tom Kennedy and J. H. Shankland, with the assistance of Flight Test Norcrafters Russ Monsch and Hal Carson.

Personnel Activities and Services will feature a blood bank display, showing graphically the contributions of Norcrafters to this important project.

The Northrop Recreation Club, in addition to sponsoring the Kiddie-Fair for children at the end of the tour route, will have a booth showing the scope of the NRC program.

SAFETY-CONSERVATION

Side-by-side booths will be occupied by displays of the Safety and Conservation department.

Safety services, personal protective equipment, and new detection devices will be among the Safety exhibits; the adjoining Mat Con booth will show methods being pursued to give the Air Force more airplane per dollar and to demonstrate salvage systems operating at Northrop. Walt Fischer and Jim Scott are manning the displays.

Civil Defense will present an informational display featuring Ground Observer Corps equipment and C-D equipment here at hand at Northrop. C-D Coordinator Jerry Baker is directing the plans with yeoman assistance from May Hawkins.

In addition to booths and displays mentioned, showings will be made by the Engineering and Materiel divisions and the Pasadena Optical Laboratory, Frank Hollister, Manufacturing (who is coordinating the entire program), reports, although details were not available late last Thursday.

Hollister has pointed out that the booths and displays are being constructed in the most economical manner possible, with the view in mind of salvaging the materials used for further utilization in the plants.

All departments are represented in the Open House with representatives who will be stationed at strategic points along the route to explain operations to visitors.

HOSTS FOR DAY

Among the departments which are unable to present displays, due to security restrictions, is the Electro - Mechanical Laboratory, many of whose personnel, however, will be acting as hosts on the red-letter day.

Complete roster of the Open House committee follows:

Public Relations — Al Cline, Todd Fast; Cost and Budget — Jack Gorman; Flight department and Flight Test—T. G. Kennedy and J. H. Shankland; Engineering—F. W. Priest; Industrial Relations — John B. Clark, Ed Baum, Dave Stadler.

Plant Security and Protection —E. F. Burke; Personnel Activities and Services—Charles Boyle, Harry Clark; Northrop News—Charles Bradford, Harry Herranen, Frank Pierson; Manufacturing—Frank C. Hollister.

MORE COMMITTEE

Manufacturing Operations Administration—Bob Lloyd; Plant Engineering — Gene Musk, Ed Petoskey; Electro - Mechanical Labs—Pete Scott; Materiel — Jack Hebard; Quality Control—Ed Bates.

Military Relations — Russ Bowditch; Payroll — George Forbes; Anaheim — Hal Chanslor; Edwards—Bob Rolfe; Florida—C. F. Hagenmaier; LAX—Chuck Gilbert; Ontario—Wayne Wiggins; Palmdale — Dick Carroll; and Radioplane—J. Moser and M. M. Loane.

Community

(Continued from Page 1)

rate the Open House-fifteenth anniversary celebration at the Company.

Already the local publications, including the Press and the Tribune, have carried extensive stories and features regarding the Northrop Open House plans, informing the Hawthorne citizenry that everyone is invited to the open house festivities.

The friendly cooperation of city authorities has extended to the matter of parking in the area of Northrop Field on July 10. Customarily the streets closely surrounding Plant One are limited parking areas, with time restrictions ranging from one hour to three hours.

The Hawthorne Police Department, Chief Harry Severns has divulged, will relax the parking regulations for the day.

Of especial note is the fact that residents of the community are pitching in with gusto despite their current efforts toward successful planning of the annual city fair, which commences on July 14.

News to Home-mail Free Souvenir 15-year Issue

Free mailing of the four-color fifteenth anniversary souvenir issue of the Northrop News will be offered to visitors to the Open House on July 10.

Northrop News staff members will be stationed at the News booth—located at the far east end of the final assembly line—to address envelopes for Norcrafters and friends who wish to send the specially-prepared issue to relatives unable to attend the Open House festivities.

At the booth there will also be available thousands of copies of the souvenir issue for visitors and plant personnel to take home. Only a limited number will be set aside for later distribution through the News Office.

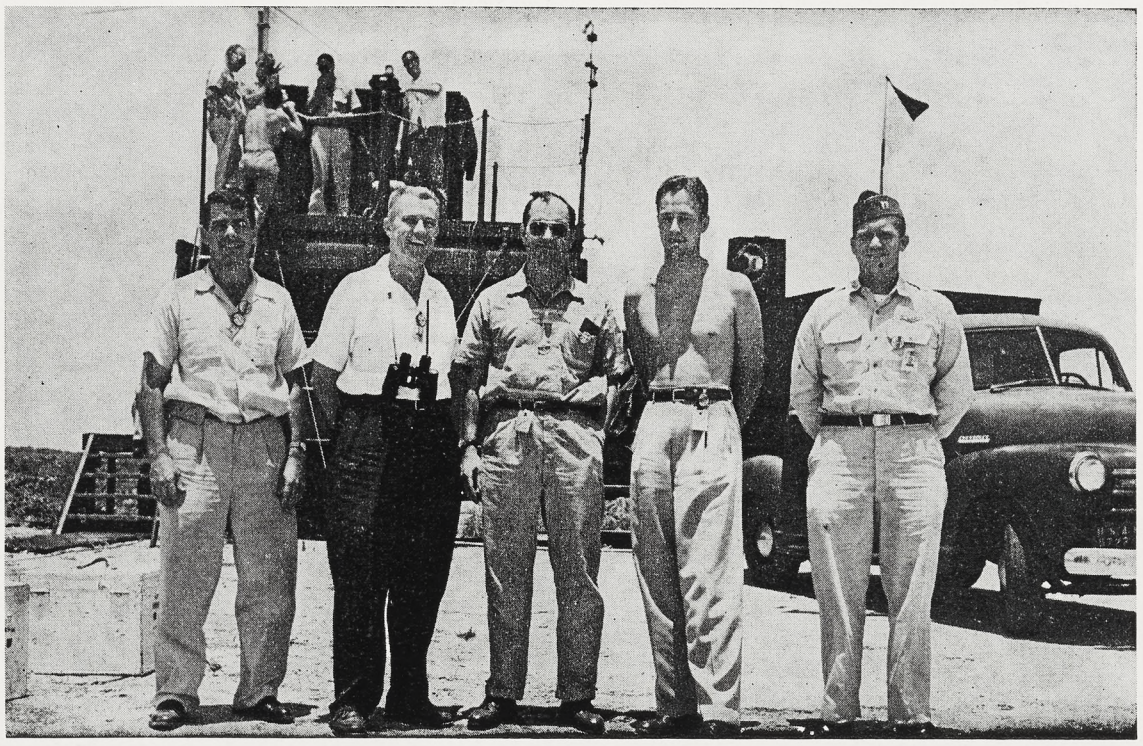
The issue has been in preparation for several weeks, with the News staff being assisted by Norcrafters of Public Relations, Art Services, Photo Lab, and others. Many old-timers among the personnel have indicated that they have kept files of back copies to which they will add the new souvenir issue as a kind of counterpart to the tenth anniversary issue published five years ago.

The issue will pay particular tribute to the Norcrafters who fulfill fifteen years of service with the company this year. Other features, in addition to the four-color Scorpion painting by Jack Leynnwood, Art Services, will describe major products of the company and the advance made by Northrop since its birth fifteen years ago.

A supplement to the souvenir section will re-trace the steps visitors take on their tours through the plant that day. The entire issue will be, for years to come, a suitable memento of the celebration that attends the Company's fifteenth anniversary.

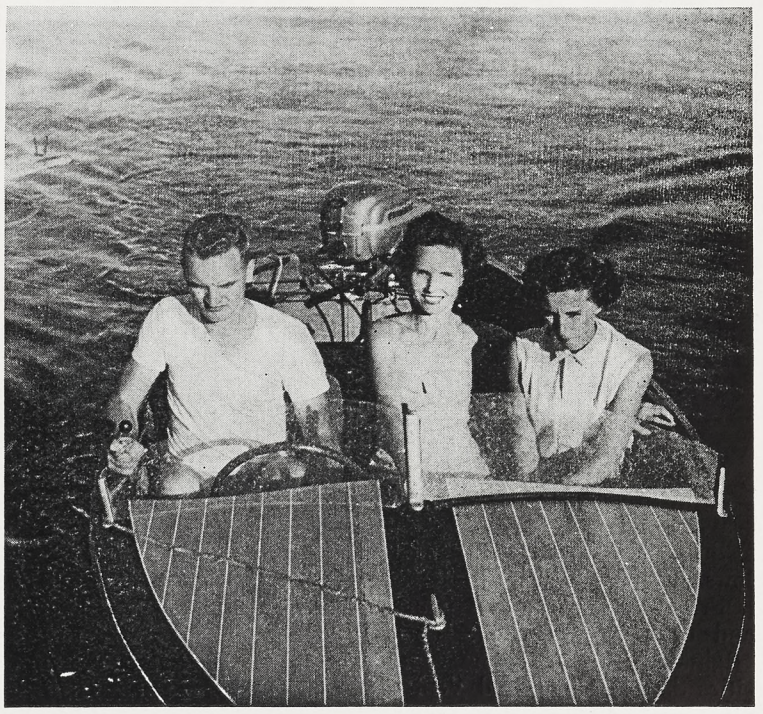
The souvenir publication replaces the one which would ordinarily be on the stands on Wednesday, July 14. It will contain no share-the-ride or BBSF advertisements, and other popular features of the paper will be held over until the following regular issue appears on July 28.

Beaming Smiles of Success



SMILES UNLIMITED—. During a recent flight of the Snark at Patrick base, feelings are mirrored in the smiles of, from left: Dick Warner, supervisor, Operational Planning; Verl Smith, chief, Missile Test Facility; Bill Ballhaus, chief engineer; Milton Kuska, chief, Missile Field Test; Captain W. B. Barnes, assistant project officer, AFMTC. On elevated control van in rear, additional Norcrafter participants in the test are: Max Stanley, director, Flight department; Art Ford, assistant chief engineer, Analytical; George Scott, assistant chief Missile Field Test engineer; John Brumfield, supervisor, Flight department; Jack Moline, GCA engineer. (Official United States Air Force photo.)

Norcrafters Host A F In Fiesta at Eglin



EGLIN NORCRAFTERS and Eglin AFB personnel hold first joint get-together at home of Northrop bachelors Bill Annand, Don Knittle, and Chuck Gibbons; and Dick Lorge, Test engineer, operates water taxi fun service for one and all. Shown with Dick: Mrs. Loren Schreyer and Mrs. Lorge. Photos were taken by Air Force Staff Sergeant Muench. (For details of Eglin test program involving Norcrafters, see Northrop News issue published on February 24).

Engineers Contribute to Successful IAS Meeting

Two highlights of the National Summer Meeting of the Institute of Aeronautical Sciences, held during the week of June 21 at IAS building, 7660 Beverly Boulevard, Los Angeles, are of interest to Norcrafters.

Evening session, June 21, had Edgar Schmued, vice-president, Engineering, as the principal speaker. Subject of his address was "Military Aircraft and Weapons Operations".

Banquet night of the meeting, June 23, had as its theme the subject "Our Shrinking Globe". This motif was pointed up by a background on the stage of the Pacific Ballroom, Hotel Statler, which was created by artist Paul Tramz, Engineering Publications, from an idea sparked by John Kerr, chief project engineer.

Tramz' work graphically demonstrated how modern aviation has shortened the distances between any two points on the globe—in point of travel time.

Donald Douglas, president, Douglas Aircraft, was principal speaker on this occasion.

"UNDER GOD" ADDED TO FLAG PLEDGE

President Eisenhower has signed into law a new pledge of allegiance.

The new pledge adds the words "under God" and henceforth will conclude " . . . one nation, under God, indivisible, with liberty and justice for all".

The President stated in signing the new law:

"From this day forward the millions of our school children will daily proclaim in every city and town, every village and rural schoolhouse, the dedication of our nation and our people to the Almighty. To anyone who truly loves America, nothing could be more inspiring than to contemplate this rededication of our youth, on each school morning, to our country's true meaning."

The Pledge of Allegiance now reads:

"I pledge allegiance to the flag of the United States of America and to the republic for which it stands, one nation, under God, indivisible, with liberty and justice for all."

The original pledge was written by Francis Bellamy in 1892.

Procedure states that when giving the pledge of allegiance to the flag, it ". . . is to be rendered by standing with the right hand over the heart. However, civilians will always show full respect to the flag when the pledge is given by merely standing at attention, men removing their headdress. Persons in uniform shall render the military salute".

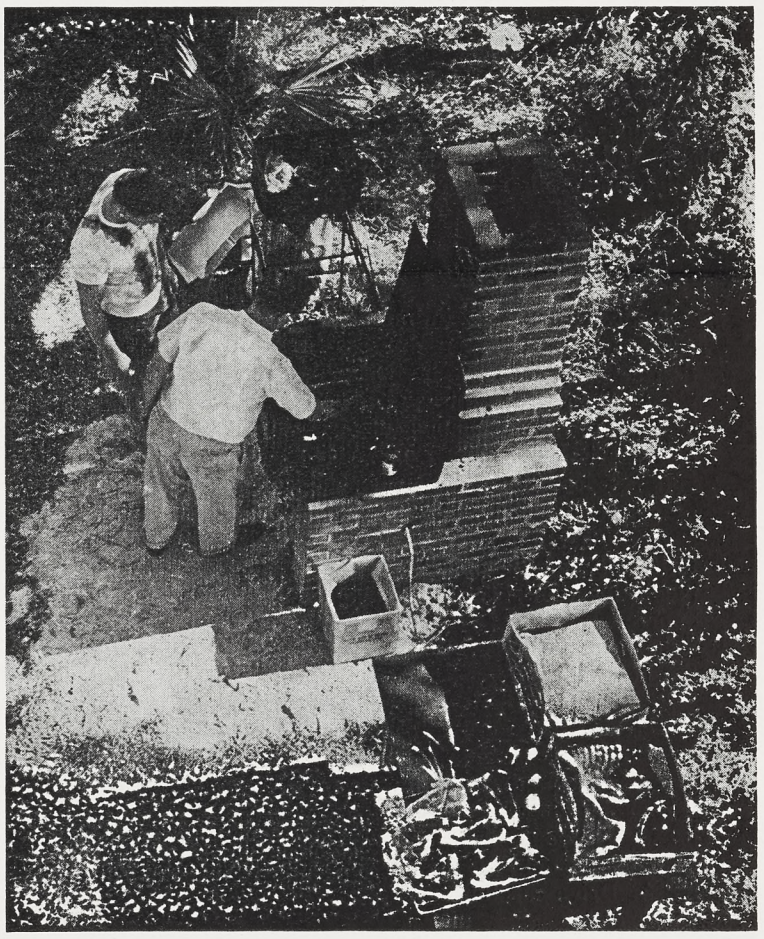
KEGLERS INVITED TO INVITATIONAL MAPLE TOURNEY

Invitation has been extended to all Norcrafter bowlers to enter the Ontario NRC invitational tournament to be held July 11 at Pomona Recreation Center, 300 South San Antonio Avenue, Pomona.

Deadline for entries is July 2. Fees will be $2.40 per individual per event plus 50¢ for all events (optional). Entry fee must accompany the entry blank, according to tourney rules.

Entry blanks may be obtained from all PA&S offices and are to be turned in to Buck Muir, PA&S, Department N4420, Ontario on or before July 2.

BEAUTIFUL weather prevails—. Main center of interest was barbecue "facility" where Major Lawton K. Bannister, Air Force advisor to Eglin Project, barbecued steaks in the very best tradition, and taste! Bill Annand, Test Engineer, left, lends his earnest moral support.



EGLIN NORCRAFTERS picnic on the bay. Partaking of barbecued steak are from left: Airman First Class Patterson; Al Dunniboil, Test Lab mechanic; Mrs. Gene Cornford; Gene Cornford, Test engineer; Mrs. John Guess; Mrs. George Coffey; Master Sergeant Scruggs; Airman First Class Alexander; John Guess, Test Lab mechanic; Airman Third Class Andy Caverly; Staff Sergeant McHarvey. NRC was sponsor of the festivities.

ALL ROADS LEAD TO HAWTHORNE

OPEN HOUSE MAP – HOW TO USE

All roads will lead to Northrop-Hawthorne plant on Saturday, July 10, and the map printed on these pages is designed to aid happy arrival.

Recommended routes to the plant are based on Imperial Boulevard's being the nearest main artery to Northrop, with boundary streets to the east and west being, respectively, Crenshaw Boulevard and Prairie Avenue. The plant faces on Broadway.

Suggested routes are as follows:

From Santa Barbara, Ventura, and cities to the north—Coast Highway 101 through beach cities Santa Monica and Venice, via Lincoln Boulevard to Imperial . . . Imperial east to Prairie.

Inland route from Ojai, Piru, Oxnard — Ventura Boulevard to Sepulveda . . . Sepulveda to Imperial . . . east to Prairie.

Canoga Park and Van Nuys vicinity residents may also use the Sepulveda to Imperial route.

Antelope Valley cities may use Highway 6 to Highway 99 and thence south to Sepulveda . . . Sepulveda to Imperial.

Two routes are suggested for Burbank and Glendale vicinity, depending on location. They are Los Feliz Boulevard to Western Avenue to Imperial . . . or San Fernando Boulevard to Figueroa Street to Imperial and west to Crenshaw. Arroyo Seco freeway also leads to the Figueroa route.

Ontario, Pomona, and Chino vicinity residents may arrive via Garvey Road and the Figueroa route or by the Brea Canyon cut-off from Pomona . . . going through Brea to Imperial Boulevard and west to Crenshaw.

Beach cities to the south and inland towns of Escondido, Fallbrook and Vista will best be served by Coast Highway 101 . . . going north to Imperial and east to Prairie.

Public transportation facilities from the various sections of the metropolitan areas is as follows:

The "five" car from anywhere in downtown Los Angeles or beyond.

From the eastern sections of the city (South Gate, etc.) : Crosstown Bus Lines. Call NEvada 6-5582 for schedule information.

From the beach cities (Manhattan, Redondo and Hermosa) Sunset Stage Lines. Call OSborne 6-0175 for schedule information.

Generally serving the environs of Inglewood is Inglewood City Bus Lines. Call ORchard 7-3071 for schedule information.

O-H HANDY HINTS

With the purpose in mind of making Northrop 15-year anniversary Open House a headline day of relaxation and fun for everybody, News reporters interviewed plant officials for hints and general information on how best to attend such an affair. The following consensus of ideas is from Plant Engineering, Personnel Activities and Services, Plant Security and Protection, Northrop Cafeteria and the Safety Engineer's office.

1. Have Momma make a big lunch (Northrop cafeteria will not be open). See map adjoining for ideal picnic locations. Centinella Park—swimming pool here. Sportsman Park—fly casting pool here. Hawthorne Park—barbecue stoves. Alondra Park—lake. Don't forget the beaches.
2. Wear informal clothes—bring a bathing suit. You might want to go in swimming at one of the places mentioned above after attending Open House.
3. No swimming within one hour after eating.
4. Lock your house before you leave. Tell the neighbors where you will be. There is peace-of-mind insurance.
5. Dad should fill the car with gas and oil.

5A. Drive carefully.

6. Bring a stroller (or strollers) for the little tots.

7. Wear low-heeled shoes.
8. Arrive early and avoid the rush. Open House hours are from 10 a.m. to 4 p.m.
9. Follow the tour route in going through the plant. The line-of-march will be plainly marked.
10. Rest room facilities—ask Norcrafters on duty. They will be wearing special badges signifying that they are on the Open House committee.

11. Get a good look at the Scorpion. One Scorpion will have a stairway and platform so that visitors can see inside the cockpit.

12. Spend all the time you like looking at the booths. These contain many interesting features about Northrop and how missiles and Scorpions are built.
14. Plan to spend plenty of time at the Kiddie-Fair. See page two of this issue for details on what will be found there.
15. After you leave Northrop Field pick out a good place to lunch—see item one for park locations.
16. Bring a blanket in case you plan to have lunch on the grass or on beach sand. An umbrella?
17. Drive carefully.
18. Get home before dark, the juniors will be tired by this time. Get to bed early, get a good night's sleep.
19. Go to church Sunday morning.

PALMDALE
6
6
1
CENTINELA PARK
2
SPORTSMEN PARK
3
HAWTHORNE PARK
118
4
ALONDRA PARK
SAN FERNANDO
FOOTHILL BLVD.
BURBANK
GLENDALE
COLORADO BLVD
LOS FELIZ
VICTORY BLVD
LANKERSHIM BLVD.
VERDUGO
LAUREL CANYON BLVD.
COLDWATER
LAUREL
HIGHLAND AVE
HYPERION
UNION STATION
LOS ANGELES
WHITTIER BLVD
ATLANTIC AVE
ROSEMEAD BLVD
SLAUSON AVE
FLORENCE
FIRESTONE
SOUTH GATE
101 BP
IMPERIAL BLVD
COMPTON BLVD
CENTRAL AVE
FIGUEROA
CRENSHAW
WESTERN
VERMONT
LA BREA
CULVER BL
HESTER
TELEGRAPH ROAD
WHITTIER
FULLERTON
ARTESIA
VICTORIA ST.
MANCHESTER
STANTON
LINCOLN AVE
ANAHEIM
ORANGE
GARDEN GROVE AVE
SANTA ANA
BOLSA AVE
HUNTINGTON BEACH BLVD
PACIFIC COAST HWY
PALOS VERDES DR
WILMINGTON
LONG BEACH
SAN PEDRO
HAWTHORNE BL
SEPULVEDA
ALAMEDA
LAKEWOOD
NAPBONNE
HUNTINGTON BEACH
101 A
NEWPORT BLVD
NEWPORT
COAST HWY
BALBOA
OCEAN
1
CENTINELA
LA BREA
FLORENCE AVE
INGLEWOOD
MANCHESTER
WESTERN AVE
VERMONT
FIGUEROA
2
CENTURY BLVD
HAWTHORNE BLVD
PRAIRIE AVE
CRENSHAW
IMPERIAL HWY
Northrop
120 TH
BROADWAY
3
EL SEGUNDO BLVD
SEPULVEDA
AVIATION BLVD
HAWTHORNE
COMPTON BLVD
REDONDO BEACH BLVD
4
138
FOOTHILL BLVD
66
71
CLAREMONT
ONTARIO
GARVEY ROAD
70
99
POMONA
CHINO
91
74

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 1)

FOUNTAIN & VIRGIL AVE., Los Angeles 27. Via Western Ave., Arlington and Crenshaw. F. TONE (5621-161, Ext. 1852). NO 2-7446. 12-1

(Zone 2)

HOOVER & 75TH ST., Los Angeles. Route: Hoover (or Vermont), Imperial Highway, Crenshaw to Plant Three. ROY L. DUTTON (5820-12 Ext. 2239). TWinoaks 5390. 12-2

ROWAN AVE. & 1ST ST., Los Angeles. RODOLFO D. LEAL (5588-336, Ext. 2619), AN 3-3006. 12-2

(Zone 5)

BELLFLOWER & CARSON BLVD., Los Alamitos. From Lakewood through North Long Beach. ROSS LANE (5338-32, Ext. 2442). L.B. 97334. 12-5

BELLFLOWER & ROSECRANS. (Interested in car pool). Bellflower. GEORGE CLEMENTS (5509-23, Ext. 2075). 12-5

(Zone 10)

REDONDO BEACH BLVD., Manhattan Beach. Will cross Aviation, Hawthorne, or Prairie. M. K. HURD (5507-99). FR 2-7737. 12-10

(Zone 12)

SEPULVEDA & LA TIJERA or Century, Los Angeles (45). DAVID ENJEM (5504-132, Ext. 1424). 12-12

MAIN & BROOKS or Lincoln and Venice, Venice, RAY KIEFT (5538-38, Ext. 525.)

PACIFIC COAST HWY. & TRANCAS BEACH, Trancas Beach. (Will pick up anywhere along Coast Hwy. or Lincoln Blvd.). W. H. THORNBURGH (5222-355, Ext. 1919). 12-12

(Zone 13)

SEPULVEDA & SANTA MONICA BLVD., West Los Angeles. BERNARD BARTON (7210-250, Ext. 1826). ARizona 7-1539. 12-13

(Zone 14)

CRENSHAW BLVD. & PICO, Los Angeles 19. ED HUSTEDT (7210-47, Ext. 508). RE 4-1350. 12-14

7:30 a.m. — 4:15 p.m.

(Zone 1)

BEVERLY & VERMONT, Los Angeles 4. Interested in car pool. N. ALMOND (3255-183, Ext. 2101). DU 9-3747. 13-1

(Zone 5)

LAKEWOOD BLVD. & DEL AMO, Lakewood. Would like car pool but will take riders. Route: Del Amo, 190th St., 174th to Prairie. A. P. PATENAUDE (3230-322, Ext. 583 or 584). 13-5

BELLFLOWER BLVD. & SOUTH ST., Bellflower. W. H. SMITH (5530-134, Ext. 2398). TO 7-0609. 13-5

ORANGETHORPE & RICHMOND, Fullerton. Interested in car pool. M. G. WHITE (1436-10, Ext. 1436). 13-5

(Zone 10)

EL SEGUNDO BLVD. & INGLEWOOD BLVD., Hawthorne. ALMA M. REED (8620-133, 2011), OS 6-6137. 13-10

(Zone 12)

WILSHIRE BLVD. & 18TH ST., Santa Monica. Route: Lincoln Blvd. to El Segundo Blvd. to Bldg. 21. ALAN FEUERSTEIN (6250-26, Ext. 1749). EXbrook 5-8084. 13-12

(Zone 13)

ROSEWOOD & HARDY, Inglewood. W. K. FITZGERALD (9330-13, Ext. 1471), OR 1-8610. 13-13

(Zone 14)

VERNON & CRENSHAW, Los Angeles. GERALD B. STUMP (5530-101, Ext. 521). AX 2-5050. 13-14

LAUREL CANYON & MAGNOLIA BLVD., North Hollywood. Three riders wanted. Route: Laurel Canyon to Sunset Blvd. south on La Cienega to Freeman. W. S. COOK (3250-326, Ext. 1871-2164). SUnset 1-9678. 13-14

CRENSHAW & 60TH, Los Angeles. Plant One and Two employees only. (3230-123). PLeasant 1-1411. 13-14

CRENSHAW & RODEO, Los Angeles. Travel Buckingham, Santa Rosalia, Vernon, Crenshaw, 59th, to 8th Ave. KAROLL SHURTZ (3120-21, Ext. 1226 or 1689). AXminster 2-3692. 13-14

3:45 p.m. — 12:15 a.m.

(Zone 14)

LA BREA & HOLLYWOOD, Hollywood 28. H. J. GENSLER (7210-256 Ext. 508). HO 3-7137. 16-14

RIDES OFFERED

4:45 p.m. — 1:15 a.m.

(Zone 1)

WESTERN & BEVERLY BLVD., Los Angeles (4). Room for 4 riders. RALPH LANDERS (5622-257, Ext. 2478). HO 4-7747) 18-1

UNION & 7TH, Los Angeles. Route: Union, Hoover, Santa Barbara, Crenshaw. E. L. HOM (5587-665, Ext. 1947). DU 2-0814. 18-1

HOLLYWOOD & VERMONT, Hollywood (27). ANDRE R. DORLET (5586-49, Ext. 1973). NO 3-8680. 18-1

(Zone 5)

CARSON & LAKEWOOD, Long Beach. (Route: Lakewood, Artesia, Alameda, Rosecrans, Crenshaw.) K. N. ANDERSON (5584-454, Ext. 1272). 18-5

(Zone 7)

VERMONT & 182ND ST., Gardena. GRACE HAZLETT (4100-223, Ext. 2331). 18-7

MAIN & SEPULVEDA, Wilmington. (Can take three or four riders from the vicinity of Avalon Village or Torrance). RAY DUPREY (5503-414, Ext. 2431). 18-7

(Zone 8)

COMPTON BLVD. & CRENSHAW BLVD., Gardena. CONNIE HARTLEY (5373-224, Ext. 2166). MEnlo 4-3904. 18-8

PACIFIC AVE. & 37TH ST., San Pedro. DAVID H. VERDURMEN (5585-647, Ext. 1381), TE 2-8913. 18-8

(Zone 9)

SEPULVEDA & HAWTHORNE BLVD., Torrance. S. F. ROBERTSON (5584-261, Ext. 1272), FRontier 5-2233. 18-9

Miscellaneous (Split Shifts)

(Zone 14)

LANKERSHIM & BURBANK, North Hollywood. (Cahuenga Pass and La Brea. Hours: 4:30 to 1:00). ROBERT L. PREBLE (1435-215, Ext. 2228), SUnset 2-1044. 20-14

Ontario

RIDES OFFERED

3:45 p.m. — 12:30 a.m.

HWY. 71, Elsinore, FRANK E. SILVA (N5585-497). 16—Ontario

4:45 p.m. — 1:15 a.m.

HWY 60 & EUCLID ST., Ontario. CARL E. GEUY (7510-211, Ext. 2438). 18—Ontario

Lynwood

7:00 a.m. — 3:45 p.m.

EUCLID AVENUE & RIVERSIDE DRIVE, Ontario. Via Highway 60 through Pomona, then Brea Canyon Rd. to Imperial Highway. Interested in car pool. LESTER C. DICKSON (6378-106, Ext. 115). 12—Lynwood

Rides Wanted

7:00 a.m. — 3:45 p.m.

(Zone 1)

YUKON & 111TH PLACE, Hawthorne. MARIANNE VIKLA (7400-13, Ext. 1240). 2-1

COLORADO & CENTRAL, Glendale. MAJORS WALDEN (7310-94, Ext. 2236). CI 2-4081. 2-1

WESTERN & ADAMS, Los Angeles. DE ARMOND BURNETT (5503-123, Ext. 2681). 2-1

(Zone 5)

BELLFLOWER & ROSECRANS. (Interested in car pool). Bellflower. GEORGE CLEMENTS (5509-23, Ext. 2075). 2-5

(Zone 6)

VICTORIA & AVALON, Gardena. DAVID COAD (5544-80, Ext. 2645). 2-6

ROSECRANS & NORMANDIE, Gardena. ROSE MITCHELL (5504-64, Ext. 1424), MEnlo 9-2694. 2-6

(Zone 8)

CRENSHAW & 190TH, Torrance. RAE FREEMAN (5351-61, Ext. 1706). ME 4-9601. 2-8

RIDES WANTED

7:00 a.m. — 3:45 p.m.

(Zone 9)

HAWTHORNE BLVD. & HWY. 101 or Sepulveda, Torrance. EVA CROW (5241-28, Ext. 1798). FRontier 5-7143. 2-9

(Zone 10)

MANHATTAN AVE. & GOULD AVE., Hermosa Beach. DONNA GIBSON (5352-97, Ext. 1651). 2-10

RINDGE LANE & BATAAN ROAD, North Redondo Beach. BEULAH WALKER (5233-33, Ext. 2466). 2-10

INGLEWOOD AVE. & 130TH ST., Hawthorne. EDNA VERA WARD (5524-314, Ext. 2209). 2-10

(Zone 12)

MAIN & WESTMINSTER, Venice. ALLEN LEE FRANCOM (5504-170, Ext. 1424) 2-12

PACIFIC COAST HWY. & TRANCAS BEACH, Trancas Beach. (Will pick up anywhere along Coast Hwy. or Lincoln Blvd.). W. H. THORNBURGH (5222-355, Ext. 1919). 2-12

(Zone 14)

CENTURY & PRAIRIE, Inglewood. INEZ MUZZY (5373-177, Ext. 537). 2-14

SUNSET & HIGHLAND, Hollywood. WINI MORTON (5353-19, Ext. 2202). HO 7-8845. 2-14

CRENSHAW & 54TH, Los Angeles. RUTH ANN BONNET (1435-39, Ext. 2761). 2-14

7:30 a.m. — 4:15 p.m.

(Zone 1)

BEVERLY & VERMONT, Los Angeles, (4) Interested in car pool. N. ALMOND (3255-183, Ext. 2101). DU 9-3747. 3-1

(Zone 2)

VERMONT & MANCHESTER, Los Angeles (44). DELLA BOEDEKER (1441-35, Ext. 691). 3-2

COLORADO & HILL, Pasadena. (Car pool possible). LAWRENCE A. DIETRICH (3430-105, Ext. 1516), SY 7-4713. 3-2

(Zone 4)

PIONEER BLVD. & FLORENCE AVE., Norwalk. N. L. WALKER (5530-103, Ext. 1567). 3-4

IMPERIAL & VERMONT, Los Angeles. KAY HILLBERG (9330-27, Ext. 1474). PL 5-7417. 3-4

(Zone 5)

LAKEWOOD BLVD. & DEL AMO, Lakewood. (Would like car pool but will take riders: Route: Del Amo, 190th St., 174th to Prairie.) A. P. PATENAUDE (3230-322. Ext. 583 or 584). 3-5

SOUTH & CLARK or Bellflower, Lakewood. M. H. McNEIECE (5530-171, Ext. 1564), TOrrey 7-4315. 3-5

(Zone 6)

VERMONT & 169TH, Gardena. PAM SRADER (4280-15, Ext. 2456). ME 9-5249. 3-6

(Zone 8)

COMPTON & CRENSHAW, Gardena. (Ride home only.) JEAN GARBA (1441-93, Ext. 691). 3-8

(Zone 9)

REDONDO BEACH BLVD & HAWTHORNE or Prairie, Torrance. (Need ride home only.) LEONARD L. COLLINS (3250-153 Ext. 2001). FR. 2-1841.) 3-9

(Zone 10)

REDONDO BEACH BLVD. & RINDGE LANE, Redondo Beach. Ride home only is satisfactory. JUNE LEMOINE (9320-1041, Ext. 2151).

ROSECRANS & HIGHLAND, Manhattan Beach. (Ride home only.) JANEL BIRD (3140-868, Ext. 484). FRontier 4-1967.

ROSECRANS & HIGHLAND, Manhattan Beach. JEAN SHORT (4400-13, Ext. 1893). OS 5-4573. 3-10

(Zone 13)

MANCHESTER BLVD & INGLEWOOD AVE., Inglewood. JEAN CORNWALL (5240-27, Ext. 2309 or 2218). 3-13

(Zone 14)

JEFFERSON & LA BREA, Los Angeles. ROBERT C. SKINNER (3330-43, Ext. 424).

3:45 p.m. — 12:15 a.m.

(Zone 4)

IMPERIAL & FIGUEROA, Los Angeles. HARRY G. SPENCER (5501-604, Ext. 2200) PL 4-3447. 6-4

4:45 p.m. — 1:15 a.m.

(Zone 1)

JEFFERSON & HOOVER, Los Angeles. PAT COYLE, JR. (5233-215, Ext. 2466). RI 8-9605. 8-1

(Zone 2)

CITY TERRACE ROAD & EVERGREEN ST., Los Angeles. FLORENTINO OGAZ (5504-249, Ext. 1424), AN 2-2368. 8-2

(Zone 9)

HIGHWAY 101 & HAWTHORNE BLVD., Walteria. LORRAINE ANDRESEN (5503-226, Ext. 2432). 8-9

(Zone 10)

SEPULVEDA & ROSECRANS, Manhattan Beach. MARGARET SELF (5507-245, Ext. 564). FR 2-7011. 8-10

(Zone 12)

CENTURY & INGLEWOOD AVE., Inglewood. FRANCES SULLENTRUP (5621-447, Ext. 2649). OR 2-8214. 8-12

Miscellaneous (Split Shifts)

(Zone 5)

DEL AMO BLVD. & PARAMOUNT BLVD., Lakewood. (Hours 12:30 to 9:00.) HARRY L. BODELL (4300-213, Ext. 2436). MEtcalf 3-7015. 10-5

Classified Ads to Skip Issue — July 28 Next

The customary GWM and BBSF ads will not appear in the next issue of the Northrop News, which will be the 15-year souvenir publication distributed at the Open House on Saturday, July 10.

GMW and BBSF advertisements will re-appear in the July 28 and succeeding issues. Deadline for the next published GMW ads is Thursday, July 22; closing date for BBSF is midnight Wednesday, July 21.

The classified pages are being omitted from the souvenir issue in order to give extensive coverage to the 15 years of Northrop progress.

NRC Toastmistress Club Will Install on July 1

Newly-elected officers for the NRC Toastmistress Club will be installed on July 1 at Armand's Restaurant, 2156 West Manchester Boulevard, Los Angeles.

Dinner will start at 7:00 p.m. and dress will be informal, according to Rona Jefferson, newly elected TM president.

Guest speaker for the occasion will be Ernie Boren, president of NRC Toastmasters #212, and Florence Strehlow, International Toastmistress Council director, will be the installing officer.

New officers to be installed are: Rona Jefferson, president; Louise McCulloch, vice-president; Barbara Pritzkat, secretary; Elsie Hicks, treasurer; and Marie Louise Sauer, club representative.

Club member Vi Murphy will be toastmistress of the evening and Lola Locke will be table topics mistress.

RIDES WANTED

Miscellaneous (Split Shifts)

(Zone 13)

PRAIRIE & IMPERIAL, Lennox. (Hours: 4:30 to 1:00.) BONNIE B. SMITH (1435-242, Ext. 2228). OR 2-3050. 10-13

(Zone 14)

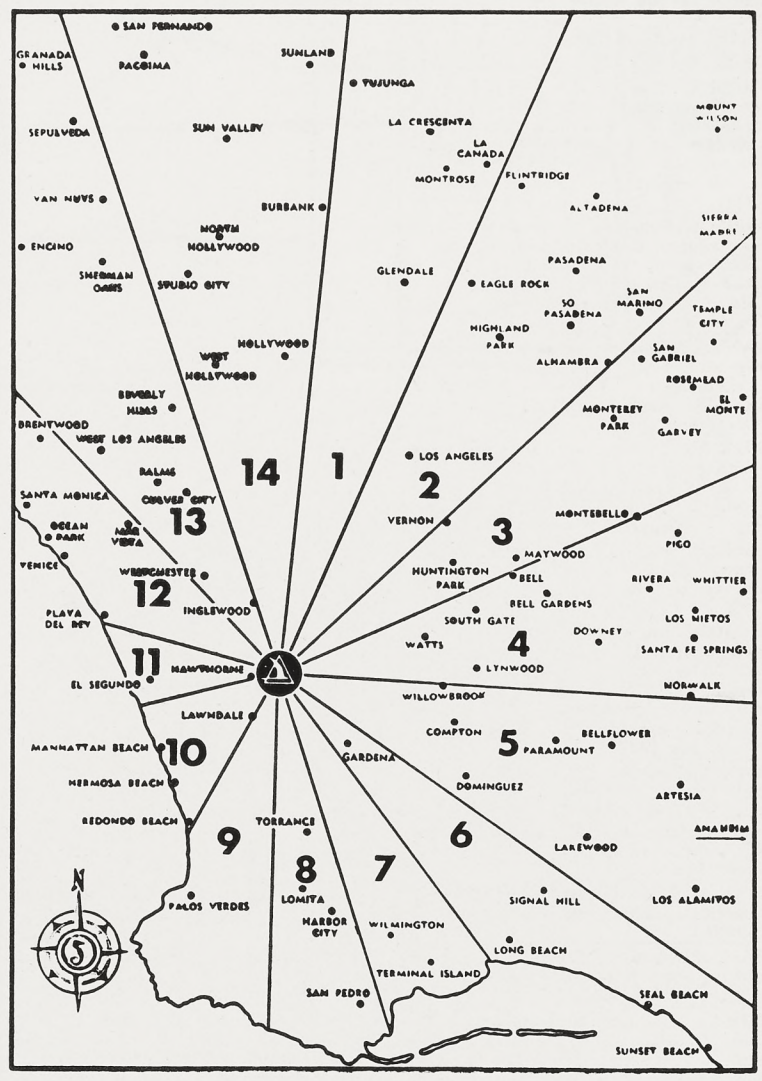
LANKERSHIM BURBANK, North Hollywood. (Cahuenga Pass and La Brea. Hours: 4:30 to 1:00). ROBERT L. PREBLE (1435-215, Ext. 2228), SUnset 2-1044.

RADIO HANDBOOK FOR PILOTS NOW REVISED — CAA

Publication of a completely revised edition of the "Pilots' Radio Handbook" is announced by F. B. Lee, Administrator of Civil Aeronautics, U.S. Department of Commerce.

The new 122-page publication was prepared with the pilot in mind and explains in non-technical language the operational use of all the navigational aids available to all pilots with two-way radio equipment. It includes information-packed chapters on the omnirange, flight assistance service, low and medium frequency ranges, control tower procedures, radio weather and en-route radio-telephone procedures, among others.

"Pilots' Radio Handbook", or CAA Technical Manual No. 102, may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C., at 45 cents per copy. It replaces the old Civil Aeronautics Manual No. 29 which was published in 1941.



BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

HOME MOVIE EQUIPMENT, Eastman 16mm CAMERA, $25; Bell and Howell PROJECTOR, 16mm retail price $199, will sell for $100; German Steinheil TELEPHOTO LENS, 2.8-36mm, with black and white filter attachment, $35; EKOTAPE RECORDER, like new, used only twice, retail price $184, will sell for $119; SUN LAMP, $20; also DISHES, FURNITURE, CLOCKS, etc., ARizona 7-0359.

PIANO, Hallet Davis upright, solid mahogany, original cost $700, will sell for $100. F. SALAZAR, AX 3-7337. A

PIANO, upright, used, $50. ANNA MARIE MARTUCCI, PLymouth 4-8378 or PLymouth 4-1633. A

HOUSE, 2-bedroom, G.I. resale, walking distance from plant, near shopping, school and transportation, large fenced yard, shade trees, completely redecorated, $10,000—$3,000 down. JAMES H. BARTLETT, OSborne 5-5981. A

RECORD PLAYER, Webcor Holiday, portable model, leatherette two-tone green, all speeds, shuts off automatically, like new, cost $89.95, will sell for $60; OLDSMOBILE, 1950 4-door sedan, Hydra-Matic, radio and heater, signal and fog lights, original powder blue, brakes relined, good tires, A-1 engine, low mileage, $895; TAPE RECORDER, Ekotype model, in perfect condition, cost $140, will sell for $75, CHARLES CARRON. Reply in writing to Northrop News, Box 2407. A

FURNITURE, 3 rooms like new maple, possibility to rent apartment, would like to sell as it stands. GEORGE MAIER, PL 5-0708. A

NASH, 1950 Statesman custom 4-door sedan, A-1 condition, overdrive, heater, white sidewall tires, new seat covers, new brakes, makes into double bed, price open. FLOYD IDEAL. Reply in writing to Northrop News, Box 2414. A

ROLLER SHOE SKATES, Chicago, lady's or girl's, white, size 6B, like new, will sell for $10, BARBARA DRUMMOND, MEnlo 4-3044. A

FORD ENGINE, '35, transmission and chassis with wheels and tires, make offer. R. M. HENDRICK, MEnlo 4-0766. A

DRESSES, children's, like new, custom-made, fine cottons, navy-green checked, size 4; 2-tone brown-tan plaid, size 6; green tweed cotton, size 12, reasonable. ROSE McKINZIE. Reply in writing to Northrop News, Box 2413. A

PUPPIES, cocker spaniel AKC registered champion stock, same bloodline as winner of Westminster dog show, excellent show prospects, reasonably priced, $25. LESTER C. DICKSON. Reply in writing to Northrop News, Box 2411. A

HUDSON Super 6, 1948 4-door sedan, new engine, overhaul including new ignition parts, radio, heater, spotlight, good rubber, need cash, $395 for quick sale. SCOTT CRESSEY, JR. Reply in writing to Northrop News, Box 2404. A

TAPE RECORDER, 1954 Ampro, plays two-hour reel, attachments, like new, original price $240—$180. ALBERT J. COBURN. Reply in writing to Northrop News, Box 2405. A

HUDSON, 1950 Pacemaker 6, low down, balance can be financed by owner. P. A. VIVIANO. Reply in writing to Northrop News, Box 2408. A

AIR CONDITIONER, Coolamatic, mechanical, window-type, ¾ ton, used 2 months, $200. W. E. CARPENTER. Reply in writing to Northrop News, Box 2409. A

TRAILER, two-wheel, lights, bows and tarp cover, $50; acetylene Prestoweld WELDING OUTFIT, torch, seven tips, two cutting tips, gauges, goggles, rod, 50′ hose, striker, etc., $50. WARREN HAVENS. Reply in writing to Northrop News, Box 2410. A

TWIN BEDROOM SET, blond, Hollywood bed frame; PLAYPEN; RADIO analyzer; gas HEATER; 2 maple CHAIRS; 2 Provincial wing CHAIRS; tank type CLEANER; Argus reflex CAMERA. OR 1-9835 after 5 p.m. A

SCOOTER, '41 Cushman, good running condition, $30. WM. A. BARR, OS 5-2454. A

TAPE RECORDER, Concertone, 1 year old, original price $345—$250. W. W. BEGLEY, NE 5-2421. A

MOTORCYCLE, Harley Davidson, 1949, just painted white, new windshield, saddle bags, new headlight, and spot lights, lots of chrome, motor in A-1 condition, $500. ROBERT E. FIELD, TOrrey 7-4315. A

FOR SALE

DAVENPORT, like new, $75. E. W. ANDERSON, PL 8-5039. A

BARBELL AND DUMBELL SET, 165 pound combination, illustrated book of exercise courses and a set of exercise charts included, $25. PAUL KOERSCHGEN, ME 9-1930. A

CAMPING TRAILER, teardrop, 12′, good tires, mattress, ice box, and stove, $125, MARION G. WILLIAMS, OS 6-7390. A

HOUSE, three-bedroom, G.I. resale, less than two years old, two-car garage, concrete patio, breakfast nook, large water softener, redwood fence, includes living room drapes, 4% loan, five minutes from Northrop, $11,800. EVELYN J. GILBERT, OS 6-9988. A

LOT, choice level lot, 83′x300′ in Circle "C" Ranchos, 4 miles southeast of Palmdale, 60′ streets, pressure water, electricity and telephone in the tract, $1000 cash. LO 4355. A

TV RADIO and 3-speed PHONOGRAPH, combination, Admiral 12″, excellent condition; G.E. REFRIGERATOR, perfect for small apartment or trailer, excellent condition, both for $200 or can be bought separately. FRANCES KING, EXbrook 6-4793. A

BICYCLE, boy's, 26″, good condition with new tire and tube, $16. C. A. HARRISON, PLymouth 4-0739. A

HOUSE, 2-bedroom, G.I. resale, $10,900—$1000 down, fenced yard, double garage, 2½ years old, 5 minutes from Northrop. KEN TURNER, MEnlo 9-3430. A

SKIFF AND TRAILER, 14′, seams fiberglassed, 1 pair oars included, $125; roof top LUGGAGE CARRIER, all metal, $6. MAJORS WALDEN, CI 2-4081. A

MODEL "A," 1930 2-door sedan, good transportation, $40. JAMES C. HOVEY, FRontier 9-2135. A

PIANO, upright, mahogany finish, excellent condition, $100, G. CAINE, MEnlo 4-3825. A

REFRIGERATOR, Kelvinator, perfect condition, $75. BERNICE K. SATTERLEE, PLymouth 5-2973. A

CHEVROLET, 1953 Bel Air, sport coupe, power steering, Powerglide, radio, heater, whitewall tires, turn indicator, etc., original owner, sells for $2475 on lot, full price $1851.68. JOHN MURPHY, NO 2-9560. A

LOT, Hollywood Riviera, 54′x130′, $3150, $1500 down, $50 per month. DICK BARRETT, FRontier 5-4011. A

FORD Victoria, 1954, blue and ivory, Fordomatic, heater, power windows, make offer. JOAN KELLEY, TOrrey 7-5556. A

RUG, grey 9′x12′, Bigelow loop twist weave and mat, cleaned twice in three years, sells new $12.95 per square yard, asking $85. DANIEL M. PECK, ORchard 7-0078. A

TV, 20″ blond, console; 1886 Winchester RIFLE in excellent condition. A. H. WILLIAMS, OR 2-4006. A

REVOLVER, Smith and Wesson .22, holster, 100 rounds ammunition, $55. D. F. ROBBINS, PL 5-0056. A

CHEVROLET, 1953 four-door, two-tone blue and white, 12,000 miles, radio, heater, new tires, excellent condition, $650 for equity. VICTOR W. BLAKE, CA 7066. A

OLDSMOBILE, 1951 4-door deluxe sedan, fully equipped, very clean, 25,000 miles, make offer. JOAN CRUICKSHANK, OR 1-7107. A

ROLLER SHOE SKATES, lady's, fibre wheels, size 6D, make offer. INEZ HYDER, FR 2-7976. A

DINETTE SET, 6-piece, light oak, $70; 2 floor LAMPS, $5 each; occasional CHAIR and overstuffed CHAIR, $5 each. MARGARET BORTNER, PL 5-4759. A

SAIL BOAT, 13′, single sail, just painted, $350. DON BYRON, ORegon 7-3778. A

REFRIGERATOR, Coldspot, 6′, works fine, $50; apartment size STOVE, good oven, $25; twin size BED, springs and mattress, $20; large corner TABLE, $5; 2 unpainted bar STOOLS, both $12; pair 7′ laminated SKIS and micromatic bindings, $12; Bally sport SKI BOOTS, size 9, $15. PAUL J. SUDDETH, FR 2-0501. A

WASHING MACHINE, wringer type table model Kenmore Jr., 5 pound capacity, excellent for small washings, also includes white enamel utility table, good condition, $30. G. SIGURDSON, ORchard 1-9095. A

FOR SALE

RING, diamond engagement, center stone approximately ¼ carat, with 2 small stones on each side in new mounting, $50 cash. C. BREAKER, OS 5-2797. A

STOVE, Hotpoint electric, excellent condition, $25; Sears LAWNMOWER, $10, in excellent condition. LORENE H. CASTLE, OS 6-6604 after 5 p.m. A

DRAFTING MACHINE, lefthand Bruning, 18 months old, used 6 months, 18″ and 12″ metal scales, graduated for full, ½, ¼, and ⅛ size, $50. JOHN KAPON, OR 1-3990. A

FOOTBALL SHOULDER PADS, excellent condition, $10; size 9 TRACK SHOES, $5. R. WEESNER, TW 1368 after 4 p.m. A

REFRIGERATOR, 6′ Servel, perfect running condition. PL 5-6360. A

CHEVROLET, 1950 2-door, good condition, equity $300—balance of 6 payments. MARION STUBBS, OSborne 6-0489. A

SWEEPER, Hoover upright, with all attachments, good condition, $25; used 9x12 living room RUG and pad, $17.50. G. H. BOKLAGE, ME 4-3611. A

LIVING ROOM COUCH and chair, like new, solid color two-tone coral and grey, couch makes up into bed, $100. S. GIBBENS, PLymouth 4-2204 after 6 p.m. A

DINING SET, genuine walnut table, extending type, 2 insert leaves, complete pad set, chairs and buffet, $50; BABY SCALE, weight type, $8; baby PLAYPEN $6; no sensible offer refused, PAUL M. WATRO, PL 1-8334 after 7 p.m.

MODEL RAILROAD H0 gauge, 2 engines, 12 freight cars, table layout 5½′x8′, $30; rectformer included, total $90; 2 LOTS near Big Bear Pines Club, 50′x100′, with small cabin, level and wooded, water and electricity, $1100, ROGER CARLSON, VE 8-8965. A

HOUSE. 2-bedroom, front room, dining area and hall carpeted, fireplace, barbecue, patio, 50′x150′ lot, terraced yard, located in Brea, midpoint from Anaheim, Ontario or Hawthorne, JOHN VILARINO, JAsper 9-2736. A

REFRIGERATOR, International Harvester, 11 months old, like new, 8 cu. ft., $150 or take payments $9.67 month, (balance $125.17) and $35 equity, JOSEPH L. KELLY, OR 2-8362. A

RADIO EQUIPMENT, complete amateur radio station including Viking II all-band transmitter, with VFO Hammerland HQ 129X all-band receiver, and all accessories except license, V. D. WESTFALL, ORegon 8-8054. A

HOUSE, 3-bedroom, hardwood floors, fenced yard, located near ocean and stores, $9300 full price, B. IWASON, Reply in writing to Northrop News, Box 2423. A

BOAT, 16′ with 5′ beam, good condition, $125 or $150 with trailer; HOUSE, 2-bedroom, 60′x150′ lot, fireplace, barbecue, $9000, $1500 down, OSborne 5-6048 after 4:30 p.m. A

MOTORCYCLE, late 1952 Mustang, 1954 license plates, excellent condition, $200, HAZEL SMITH. FRontier 9-1838 after 7 p.m. A

FORD, '51 V-8 two-door, good condition, heater, tires like new, $875; TYPEWRITER, standard Underwood, good condition, $27.50, F. DU PRIEST, L. B. 9-3019. A

HOUSE, G.I. resale, 2-bedroom, large enclosed yard, single garage, $44.55 monthly payments, $8500 full price, R. F. STRICKLAND, NE 2-1004. A

PLYMOUTH, 1949, extras, good condition, no down payment, assume payments, FRANCES L. SMITH, PLymouth 6-4005. A

BED, maple, junior size, with springs, like new, never been used, $20, J. R. HAUPENTHAL, JR., DI 2-0313. A

DISHES, china, like new, service 8, 32 pieces, $10; glass hobnail LUNCHEON SET, 4 pieces, $5; beautiful cut glass crystal COCKTAIL SHAKER, 8 glasses, $10; men's RIDING BOOTS, worn twice, 10½-11½, $10; rare early edition STEVENSON'S WORKS, 10 volumes, $50, or make offer, ALAN FEUERSTEIN, EXbrook 5-8084 after 5:30 p.m. A

LOT, 50′x150′ in Desert Hot Springs, near business district and Desert Hot Springs bath house, reasonably priced for cash, LEO W. DAY. Reply in writing to Northrop News, Box 2422. A

DOG, kerry blue terrier, 2 year old male, AKC, platinum coloring, excellent bloodline, obedience trained, will sell to right party for kennel boarding bill, R. M. AKERS, AX 4-3433. A

TENT, 6′x8′, 2-pole top, water proofed, $5; 4 folding CAMP STOOLS, canvas tops, 25c each; aluminum CAMP KIT, service for 3 persons, $2. B. E. RUNSWICK. ORchard 7-3514. A

PUPS, AKC registered collie, $25 and up, L. WATERS, NE 5-3186. A

RADIO-PHONOGRAPH, RCA Victor combination, walnut cabinet, perfect condition, $50, records free. MEnlo 4-1702. A

HOUSE, 3 bedrooms, 1½ baths, 19′x27′ playroom in back, high level lot, 5 minutes from Northrop, within two blocks of parochial and public grammar schools. DOROTHY SKELTON, PLymouth 4-4027. A

DINETTE SET, chrome, like new, oval table with extension leaf, grey formica top and four green contrasting chairs with foam rubber seats and backs, $50; RUG and pad, 9′x12′, all-wool Axminster, beige leaf pattern, good condition, $50. CHERIE HAMMON, PL 4-6088 or PL 8-8114. A

FOR SALE

TIRES AND TUBES, 4 7:00x16, excellent condition, will sell all for $35, or separately for $10 each, BILL DALY, OS 5-4537. A

BUICK, '48 Estate Wagon, radio, heater, w/w premium tires, attachment for electric trailer brakes, double trailer hitch, directional lights, back-up lights, boat rack on top, $545, R. L. BENAVIDEZ, DIckens 2-4984. A

GUN, .45 automatic, new condition, with holster and 200 rounds ammunition, $50, FRontier 2-1870. A

OUTBOARD MOTOR, 6 h.p., Wizard, one year old, $135, L. R. JOHNSON, Reply in writing to Northrop News, Box 2417. A

CHEVROLET, 1941 4-door, radio, heater, runs good, looks good, $125, L. J. BROWN, NEvada 6-7513. A

TRAILER, one-wheel with hitch, tarp, and extra tire and tube, ideal for fishing or luggage, $65, EUGENE V. SCHULDT, OR 2-4146. A

WASHING MACHINE, 1951 model, Easy Spindrier, asking $55; FORMAL, strapless, salmon pink net, size 10, with cape, cost $60, worn once, asking $25, DANIEL M. PECK, ORchard 7-0078. A

JAGUAR, 1952 Mark VII, grey with red leather, 21,000 miles. excellent condition, $2250, DOUG McCLURE, LAmbert 5-2087 or LA 5-3916. A

HOUSETRAILER, 18′ Kozy Cottage, has Frigidaire, apartment-size stove, new 17″ Olympic TV set, studio couch, all equipment one month old, will sell for $650, ELLSWORTH W. SMITH, OS 9-6086. A

WASHING MACHINE, late 1951 deluxe Easy Spindrier, good condition, $35, A. J. ROMANO, FRontier 9-2152. A

KITCHEN SET, chrome and enamel, cheap; twin BEDROOM set, blonde mahogany; single BED and Bates spread; pre-cut PICKETS for fence, 100 feet; large scene hand-painted PICTURE; various other hand-painted PICTURES, 4 matching, Hawaiian flowers, animals and scenes; large assortment of expensive FLOWER BOWLS, FIGUERINES and bric-a-brac; girl's navy coat, size 10, other CLOTHES, and some size 12 teen's DRESSES, ORchard 1-3487 after 4:30 p.m. A

CAMERA, coated f/3.5 twin lens German reflex, critical focusing, double exposure prevention and sportsfinder, shutter speeds 1 to 1/200 second, case and tripod, all for $35, JIM HARRIS, OSborne 6-5847. A

HOUSE, 5 minutes from Northrop, 2-bedroom, hardwood floors, garbage disposal, large picture window overlooking 20′x20′ patio, completely landscaped with 5′ redwood fence around rear yard, 2-car detached garage, newly decorated, wall to wall carpeting and traverse drapes, close to schools and shopping, $10,900, $1450 down payment, PL 5-2140. A

FOR SALE

GOLF CLUBS, H&B, Louisville, 5 irons and 3 woods, $50, J. QUICK, AX 3-9215. A

SILVERWARE, service for six, make offer, PLeasant 1-1411. A

LOT at Big Bear, life membership to the Peter Pan club included, ANNA P. BROWN, OS 5-3436. A

RIFLE, 30-06, extra barrel, reasonable, large amount ammo free, $30; Remington electric RAZOR, Threesome, used once, $12, JEANE OSET, OS 6-7895. A

HOUSE, $18,888.85 firm price, large 4-bedroom, 3 baths, upstairs study, ½ block to tennis courts and pool, many avocado and citrus trees, patio, watering system, Uplifters Ranch, Santa Monica canyon area, second mortgage okay, M. H. DAZEY, FRontier 5-5298. A

HOUSE, 3-bedroom, attached garage, white rock roof, 9 months old, 15 minutes from Northrop, $7995, down payment $695, move in immediately, F. A. BURGESS. Reply in writing to Northrop News, Box 2432. A

TRAILER, Travelite, late '52, Chicago model, 35′ long, completely modern, garbage disposal, 28′ awning, excellent condition, priced reasonable, one-third down will handle, HOWARD CULPEPPER, TW 9281. A

WALL TENT, 10′x12′, very good condition, ridge pole in 3 sections for easy carrying, metal stakes included, $25, JAMES R. MELTON, OS 6-9518. A

GAS STOVE with 3-burner butane 3 gallon tank, $25; camp CABINET with folding legs, only used two times, $15; Scott-Atwater 5 gallon GAS TANK, will plug in 7½ h.p. to 16 h.p. motor, $8; PACKARD, 1937, make offer, ROY R. SIGMAN. Reply in writing to Northrop News, Box 2431. A

PIANO, upright, good condition; man's BICYCLE, P. FRIZLER, WY 1578. A

TRAILER, steel frame, 6′ wide, 7′ long, 4′ high, enclosed, ideal for moving, almost new 6:00x16 tires, very reasonable, E. A. STRITTMATER, FR 4-3613.

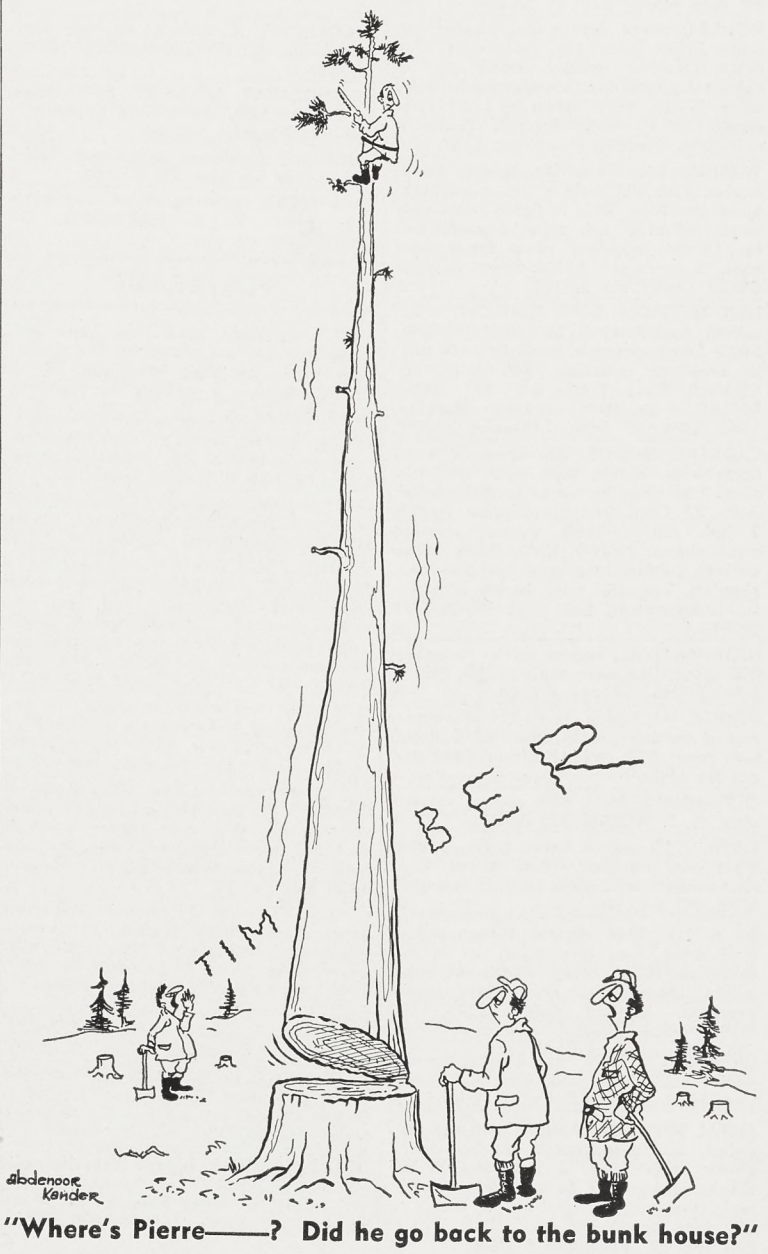
TRAILER, 1951 Spartan 33′, good condition, dinette and bath, sleeps six, large patio awning, can be financed, $2900, NEwmark 5-0887. A

OLDSMOBILE, 1939, 1948 engine and electric fuel pump, good tires, radio and heater, mechanically perfect, $75, R. L. HUMMEL. Reply in writing to Northrop News, Box 2429. A

TV, 17″ console, with record player attachment, can convert to color, like new, excellent condition, 1953 Silvertone, $100, or best offer, call evenings after 5 p.m., OS 6-4555. A

BATHINETTE, baby TOILET SEAT, baby CAR SEAT, HIGHCHAIR, good condition, all for $12, VIRGINIA STEGALL, ME 4-2150. A

(Continued on Page 10)



"Where's Pierre——? Did he go back to the bunk house?"

BBSF Classifieds

(Continued from Page Nine)

FOR SALE

BABY SCALE, like new; ROCKING HORSE; baby SWING, TAYLOR TOT; baby trainer TOILET SEAT; all good condition, make offer, ANTHONY F. MATTEO, PL 2-0916. A

FORD ENGINE, 1940, complete, good condition, $50; 1936 FORD ENGINE, complete, fair condition, $15, JOHN MILLER, EX 6-8813. A

RADIO and TELEVISION COURSE, complete, by National Radio Institute and transmitter with miscellaneous kits constructed in compliance to this course, what am I offered? T. E. AVRITT, PLeasant 3-7262. A

CAMERA, Zeiss Contax III, f:2 Sonnar lens, built-in X/meter, case, filters, sunshade, perfect condition, $165, C. W. NEWLAND, OR 7-5925. A

MOTORCYCLE, Harley-Davidson 74, OHV, powerful engine has been re-worked, tires excellent, 40 miles per gallon, $145, AX 1-5894. A

MOTORCYCLE, 1950 N.S.U., 250 cc, German 4-stroke, 4-speed gear box, new paint, lots of chrome, $225, JACK B. KNIGHT, TErminal 4-4993. A

DESK, large mahogany roll-top, original cost, $175, will sell for $35, MARGARET M. HODGE, PLymouth 4-8328. A

LAND, ½ acre homesite in Richland Farms, Compton, horses, chickens, etc. can be raised, convenient location, $2900, or make offer, LYNN BRUNSON, NEwmark 5-2490 after 5:30 p.m. A

BUICK, '50 Special 2-door sedan, Dynaflow, radio, heater, white sidewalls, original owner, low mileage, clean, $850, FR 4-5577. A

CHEVROLET, 1940 convertible, good condition, power top, radio, Southwind heater, $145, L. E. GARWOOD, FR 5-4671. A

MOTOR SCOOTER, Cushman heavy duty, 2-speed transmission, large tires, good condition, 1954 license, $75, D. M. WYLIE, DI 3-7577. A

TENT, 9'x9' umbrella with floor sewed in, includes stakes and easy-up, $15 complete, B. T. LAMPE. Reply in writing to Northrop News, Box 2426. A

TRANSMISSION, overdrive, drive shaft, complete rear end for 1941 Studebaker Commander, reasonable, G E. MERRILL, OS 6-1238. A

LAND, must sell 10 acres or more of avocado and citrus land, beautiful building sites, plenty of water, in new water district, between Fallbrook and Escondido on Hwy 395, DAVID L. HICKS, JR., L.B. 394976. A

REFRIGERATOR, 6' Servel, in perfect condition, $60; Eureka portable SEWING MACHINE, like new. $60; DAVENPORT and CHAIR SET, $80; PLATFORM ROCKER, rose velour, $20, PL 5-5154. A

HOUSE, modern, 2-bedroom, 2 years old, large living room and kitchen, service room, attached garage, clean and in excellent condition, landscaped, total price $7450, $595 down and $65 per month, E. C. BARCHENGER. Reply in writing to Northrop News, Box 2437. A

WASHER, Easy Spindrier, spinner needs repair, $50; REFRIGERATOR, 6' Gibson, good condition, $50; HOUSE, 2-bedroom stucco, 45'x120' lot, material prefabbed for 18'x36' building, steel fence, M-1 zone, 5 years old, $2100 down, balance $6400, LARRY, OS 5-6421. A

TAPE RECORDER, $180; PENTRON, in excellent condition, $125; MICROPHONE, $100; Shure dynamic small BROADCAST, in excellent condition, $60; DISC RECORDER, $345; Presto K-8 12" TURNTABLE, in excellent working condition, $145, EDWARD DOAK, DUnkirk 3-3677. A

CADILLAC ENGINE, flat head, with all accessories, clutch, floor shift, transmission, 3.36 Chrysler complete differential, $49; '37 Cord front suspension PARTS, 2 hub caps, wheels, drums, steering arms, cheap; PIANO, Hallet-Davis heavy upright, perfect ivory and keyboard mechanism, beautiful tone, bench with music compartment, $69, BILL ODOM, FR 5-5996. A

HILLMAN, 1952, sedan, driven only 12,000 miles, like new, radio, $800, FLOYD J. WATKINS, ORegon 8-1548. A

DODGE, '41, sedan, two-cracked pistons, rest of car okay, make offer; '38 DODGE, runs good, $50, call OSborne 6-5847 and ask for JACK. A

OLDSMOBILE, 1941 club coupe, reasonable, G. E. MERRILL, OS 6-1238. A

FORD, 1950 custom tudor, radio, heater, directional signals, chrome wheel discs, seat covers, very clean, original owner, $775, TO 9-8264. A

DE SOTO, 1946 custom 4-door sedan, fluid drive, runs very good, car in A-1 condition, radio, heater and many other extras, like new tires and battery, recent overhaul, original paint, $295, LES EISELE, MEnlo 9-5021. A

CHEVROLET, 1949 convertible, radio, heater, white sidewalls, excellent condition, $680, R. E. CAGLE, L.B. 904657. A

METAL TURNING LATHE, Craftsman 12" swing, 36" bed, quick change gears, power cross feed, 3 jaw and 4 jaw chucks, steady rest, ⅓ h.p. motor, boring tools, tool holders, drill chuck, tool post adapters, practically new, $310, W. T. KNOWE, JR., PLymouth 5-3988. A

FOR SALE

TV signal booster, $10, DENNIS WIRTH. Reply in writing to Northrop News, Box 2436. A

BUICK, 1950, radio, heater, all extras, very good running condition, $850. J. L. SOUZA, NE 5-0682 after 10 a.m. A

FORD, '51 Victoria, chartreuse with black top, has Fordomatic, radio, heater, new seat covers. HARRY JOHNSON, FR 4-5405 after 6. A

HOUSE, only two years old, southwest edge of Inglewood, corner lot, large yard, near grade school, children welcome, fireplace, three bedrooms, Pullman bath, dining room, kitchen wired for electric range and gas, service porch, oversize two-car garage, available sometime in August, can also be rented partly furnished, $14,500, low down payment. Reply in writing to Northrop News, Box 2438. A

TV, 21' 1953 model, excellent condition, matching walnut, turntable, polarized antenna. cost $245, for quick sale $145; FORD, 1941 Model "A" coupe, 16" whitewalled wheels, new light blue paint, A-1 mechanical condition, $85, or will trade for 2-wheel utility trailer. MIKE DYE, PLymouth 4-4594. A

WANTED TO BUY

TYPEWRITER, used portable. Reply in writing to Northrop News, Box 2442. B

CAMERA, old model Leica or Cannon, 35mm, or equivalent, lens unimportant. IRIS J. FULLERTON. Reply in writing to Northrop News, Box 2435. B

CONVERTIBLE, '47 or '48, Dodge, Plymouth, Ford, etc., must be in good mechanical condition. JOHN A. CHAMBERLAIN, FR 2-8710. B

TYPEWRITER, portable. G. POTTER, OS 6-4008. B

OLDSMOBILE, 1950 "98" Holiday, must be in good condition and clean throughout. CHARLES CARRON. Reply in writing to Northrop News, Box 2402. B

METRONOME. MINNIE M. LAUER. Reply in writing to Northrop News, Box 2400. B

PICKUP TRUCK, 1941 to 1950 stake or furniture bed; also 24' to 30' extension LADDER, and 2- wheel utility TRAILER cash. L. E. WILSON, MEnlo 9-4858. B

PROJECTOR, Revere 8mm, in good condition. I. BOUTON, PLeasant 8-9540. B

CHILD'S PLAYHOUSE, reasonable. R. A. SHEPHERD, ME 4-1528. B

BINOCULARS, Bausch & Lomb, 7x50, used but in good condition, DEAN ZES, OS 5-6422. B

ENCYCLOPEDIA, good condition, W. R. SLAGG, FR 5-3647. B

AVIARY, DON McCULLOCH. OR 2-2434. B

SAXOPHONE, C melody straight type, reasonable, BETTY GUSTAFSON, TOrrey 3-5248. B

HOUSETRAILER, 27' to 35', $500 down, R. B. HOWARD, OS 5-6354 between 9 a.m. and 2 p.m. B

TABLE, old fashioned round oak table, pedestal or leg type, OS 6-1786. B

DRILL PRESS, squaring shears and large vise, cash. H. E. HARWOOD, OR 8-6444. B

FOR TRADE

RADIO, portable, like new, cost $59, trade for light meter, pistol, Oldsmobile dual pipes, or what have you? S. K. CLARK. Reply in writing to Northrop News, Box 2415. C

RIFLES, custom built to your specifications, in exchange for shop equipment KImberly 3-8939 (Santa Ana). C

GAS ENGINE, Briggs & Stratton, will trade for small outboard motor. JOHN STRATTON, OSborne 5-3662. C

FISHING EQUIPMENT, Marlin gear, Penn Senator 6/0 reel, 24 thread white Irish linen line, tuna glass rod, genuine leather harness, leaders, value $118, never used, will trade for 1 h.p. 60 cycle, single phase and ¾ h.p. 3450 rpm motors, BILL NEWMAN. OS 6-4841. C

PONTIAC, 1938 work car, good mechanical condition, will trade for any make or model motor scooter. BERNIE L. MOORE. Reply in writing to Northrop News, Box 2421. C

GENERATOR, gasoline engine, portable, suitable for camping or heavier work, in excellent condition, will trade for any kind of fishing equipment or outboard, boat, etc., call FR 2-2617. C

HOUSE, like new, 3-bedroom, hardwood floors, knotty pine kitchen, in Lomita, will trade equity for a late model pick up truck or good 14' boat and motor. JOHN W. EARLEY, DAvenport 6-4848. C

BIKE, boy's 26", good condition, trade for 24" bike, good condition, ROY GUSTAFSON, TOrrey 3-5248. C

BILLY GOAT, small, will trade for good watch dog, must like children, FRANK E. SILVA. Reply in writing to Northrop News, Box 2430. C

BEDROOM SUITE, blonde ash; Hotpoint automatic WASHER; roll-away DIVAN; will trade for large housetrailer, worth nearly $700, K. W. PARKER, OS 5-5701. C

FOR TRADE

CHINCHILLAS, top grade, 1 pair, will trade for old car or what have you, R. B. HOWARD, OS 5-6354 between 9 a.m. and 2 p.m. C

FOR SALE OR TRADE

NASH, 1940, good engine and excellent body, overdrive, radio, business coupe, has '54 license, would like to trade for outboard motor, motorcycle, sewing machine, power tools, camping trailer, boat, or what have you. JOSEPH J. HORKA, OS 5-4954. M

SUNBEAM TALBOT, 1952, excellent condition, $100 for equity, or good car; must sell. DALE THORAK, PL 5-1750. M

RACING ENGINE, just rebuilt, heads, 3 pot manifold, headers, ported and relieved, balanced, racing pistons, full cam, chrome, R.T.A.—138 m.p.h. Class "A"; make offer, cash or trade. E. F. HUSTEDT, REpublic 4-1350. M

NASH Statesman, '51 2-door, radio, seat covers, like new, new brakes, $490 equity—payments $25 per month; best offer or trade for low equity in any model '48 convertible. JOHN A. CHAMBERLAIN, FR 2-8710. M

HUDSON Commodore 6, 1950 4-door, radio, heater, underseal, w/w, very clean, $700, or will trade equity for older, lighter car and pay difference. RAY TOMICH, ME 3-0346. M

OLDSMOBILE, '53 4-door, power steering, power brakes, 2-speaker radio, backup lights, two-tone green, 15,000 miles, $2800, or will consider '52 Ford station wagon, 4-door or Plymouth for equity and pay difference. J. GREEN. Reply in writing to Northrop News, Box 2406. M

OLDSMOBILE, 1950 convertible, black with white top, radio, heater and backup lights, straight transmission, sell or trade for later model, $1050. J. G. PODHORSKY. Reply in writing to Northrop News, Box 2401. M

LAWNMOWER, Craftsman electric, 100' cord on automatic rewind reel, cost $115, used very little; four family FLAT located in Glendale, each flat has 2 bedrooms, large living room and dining room, individual furnaces, water softener, $300 month income, will consider trade for 3-bedroom house, W. G. KIERATH, CItrus 3-1802. M

PAINT SHAKER, Miller, used only about 6 months, cost about $165, best offer near $75, or will trade for motor scooter, skill-saw, band saw, jig-saw or what have you in wood-working equipment, BERNIE L. MOORE. Reply in writing to Northrop News, Box 2418. M

TRAILER, 20' tandem, 8 months old, 7' 3" wide, 4' side, 2-axle, electric brakes, $250, or trade, DUKE MESSINA. Reply in writing to Northrop News, Box 2419. M

MG-TF 1954, 3000 miles, wire wheels, will accept a reasonable trade, $1995 full price, BILL FRANKUM, AX 2-6119. M

MOTORETTE, 1946 3-wheel, 1 cylinder, '54 plates, aluminum body. $90, RALPH W. GUNTHER, OS 6-0413. M

CHARTER BOAT, 40' Tornado, fully equipped, all 1954 licenses and permits, 25 scoop bait-tank, 4-channel ship-to-shore radio, power Packard marine with hydraulic controls, sell or trade for late Cadillac or other car of equal value, $3500, E. P. TRASK, El Segundo 1465-J.

NASH Ambassador, 1953, fine condition, 6000 actual miles, prefer Nash in trade or will sell, BOB GENTZ, AX 1-6463. M

HOUSE, 2-bedroom, hardwood floors, 20' x20' detached garage with 1-bedroom garage apartment, unfinished, lot 42'x 276', $9800, $750 down, or will trade for what have you, R. B. HOWARD, OS 5-6354 between 9 a.m. and 2 p.m. M

MINK SCARF, 3 piece, make offer, DALE CROTHERS. Reply in writing to Northrop News, Box 2433. M

HOUSE, 3-bedroom, plenty of closets, hardwood floors, double garage, fenced yard with growing garden, close to schools and shopping centers, $1200 down or will take late model car or truck as down payment for quick sale, TERRY RUTH, NE 8-5239. M

FREE

BOXER DOG, 3 years old, 80 lbs., fawn, exceptionally friendly and fond of children, free to good home with ample space, thoroughbred but no papers. P. H. CHAMPION, STate 9-5791. D

TOP SOIL, rich, sandy, Manhattan Beach, LARRY, OS. 5-6421. D

CATS, two, to good home, one blue persian female, one black male, LAURA A. WILLIAMS, FA 8-4938. D

RENTALS OFFERED

ROOM for light housekeeping, twin beds, 2 miles from Northrop, price open. L. M. JARROW, ORegon 8-8832. E

ROOM and BOARD, private home, lunches packed, TV, atractive double or single rooms, $18. ALBERT W. GIBBS, FRontier 4-4215. E

SLEEPING ROOMS, gentlemen, quiet neighborhood, not far from bus line, one at $10 week, one at $4 week. C. BROWN, PL 8-8747. E

BIRD AVIARIES, 3 large shed size, can be locked, plenty of shelter and water, will accommodate large number of birds of all kinds, $10 per month, BILL DALY. OS 5-4537. E

RENTALS OFFERED

SHARE APARTMENT. man around 30 to share 2-bedroom apartment, $60 each, E. G. PICKERD. Reply in writing to Northrop News, Box 2425. E

CABIN, 2-bedroom, 2 blocks from Lake Tahoe, $45 a week, E. W. ANDERSON, PL 8-5039. E

HOUSE, 3-bedroom, near El Camino College, fenced yard, double garage, water softener, A-1 condition. BERNIE K. SATTERLEE, AX. 2-9663. E

BACHELOR APARTMENT, furnished, ½ block from beach, $55 month with 1 year lease or $85 month without lease, L. M. KAPLAN. Reply in writing to Northrop News. Box 2440. E

BACHELOR APARTMENT, furnished, utilities paid, ANNA KELLY. Reply in writing to Northrop News, Box 2420. E

HOUSE, 2-bedroom, nice location, No. Redondo area, fenced yard and new landscaping. R. F. WIGGINS, ME 9-5752. E

ROOM, furnished, adjacent to bath, five-minute walk to Plant Three, for one man, $7 per week, D. D. GRANT, OREgon 8-9701.

SHARE APARTMENT, man to share new furnished apartment 4 blocks from Northrop, radio, television, and telephone, GEORGE KNIGHT, Osborne 5-4545 after 5 p.m. E

HOUSE, 6-room stucco, 3 bedrooms, double garage, kitchen furnished, $110 per month, CLEMENTE ARREDONDO, PL 2-3633. E

DOUBLES, like new, spacious 2-bedroom, hardwood floors throughout, tile kitchen, garbage disposal, service porch, breakfast room area, separate dining room, wardrobes, TV outlet, $100 month. J. H. BARTLETT, OS 5-5981. E

SHARE HOME, two single men share bedroom, twin beds, TV, cooking privileges if desired, $10 per week, available July 1, JOHN E. TEAS, OS 5-5644. E

ROOM and BOARD for two gentlemen who will share same room. nice home with small family, TV, lunches packed and laundry done, ten minute drive from Northrop, call ME 4-7213. E

APARTMENT, 2-bedroom, like new, modern, no pets, garage, garbage disposal, patio, barbecue, close to beach and stores, 15 minutes from Northrop, $82.50 month, G. A. GRANDSTAFF. FR 9-4041. E

APARTMENT, one-bedroom with garage, unfurnished, child welcome, $60 month. Call AX 3-9792. E

APARTMENT, furnished single, new, modern, wall-to-wall carpeting, TV antenna, garbage disposal, carport, free use of washer and dryer, two blocks to markets and shopping, all utilities paid, available July 15, $93 per month, near La Tijera and Centinela, H. F. GREGORY. Reply in writing to Northrop News, Box 2441. E

APARTMENTS, like new unfurnished, 1-bedroom, sliding doors, large closets, select hardwood floors, thermostat heat, tile, Waste King garbage disposals, built-in TV antenna, garages, no pets, 4 blocks from Northrop. OS 6-8584 after 5 p.m. E

ROOM, and closet, large, private entrance, semi-private bath stall, Leimert Park, J. PAWLICKI, AX 2-9204. E

HOUSE, two years old, southwest edge of Inglewood, corner lot, large yard, near grade school, children welcome, fireplace, three bedrooms, Pullman bath, dining room, kitchen wired for electric range and gas, service porch, oversize two-car garage, available sometime in August, can be rented partly furnished. Reply in writing to Northrop News, Box 2439. E

MOUNTAIN CABINS near lake, Crestline area, reasonable. OS 6-3526. E

SKIN DIVERS TO STUDY LATEST IN HOW-TO-DOS

Newest thing in the NRC kelpworm department is a safety program to acquaint skin divers with skin saving rules.

Club members will be briefed on the use of underwater breathing apparatus and lifesaving techniques starting July 19 and every Wednesday until August 18 from 6:15 p.m. until 7:00 p.m.

Meeting place will be the Leuzinger High School pool.

Program will be headed by Gerald Buser, Club member, with assistance by George Branch and Gordon Grant, Club commissioner.

One of California's newest popular outdoor sports, the participation has reached such proportions that neophytes and old-timers alike should be reminded of the dangers as well as the pleasures of this fascinating sport, says Comish Grant.

RENTALS WANTED

APARTMENT, single woman desires small furnished apartment in or near Inglewood, to $55. MILDRED SUTHERLAND, RE 7613. F

HOUSE, immediately, 3-bedroom or 2-bedroom and den, must have fenced yard and be in very clean condition, will pay up to $80 per month. RAY O. WENGER, JR. Reply in writing to Northrop News, Box 2416. F

HOUSE, 2-bedroom, garage and yard, couple with young baby, will pay up to $70 per month, MARIAN CARLSON, AX 2-3739. F

CHILD CARE OFFERED

TODDLERS' HAVEN, children 2 to 10, good food, fenced play yard, naps if desired, and snacks, OSborne 6-6566. G

SUNRISE DAY NURSERY, licensed, ages 2 to 10, days, swing shift, fenced play yard, hot lunches, snacks and naps, close to all aircraft plants. register now for school vacation, OSborne 6-1786. G

CHILD CARE, any age, prefer small babies, room for three to assure proper care, also swing shift, rates reasonable, J. E. CLARK. Reply in writing to Northrop News, Box 2427. G

CHILD CARE, boy three years or older, days only, vicinity of Doty and 146th Street, price open, call MRS. BELL, OS 5-5619. G

CHILD CARE WANTED

CHILD CARE, someone to live in and care for one-year-old twin girls, informal home life, room, board, and salary and many other privileges. BETTY AUTERA, OS 6-3619 after 5 p.m. H

LOST

GLASSES, dark, prescription ground, light plastic rims, left in back booth at the plant cafeteria, Wednesday 11:30-12:15, June 9, DOROTHY H. BRILEY, OS 5-3500. J

PERSONALS

SHARE EXPENSES, 1 or 2, leaving July 23 for Cleveland, Ohio. EVANGELINE BOBITCH. Reply in writing to Northrop News, Box 2412. L

RIDERS WANTED—One way or round trip to Albuquerque, New Mexico; leaving 6 p.m. Thursday, July 1, returning Monday, July 5; can take three persons; driving 1953 Packard. W. O. ALLEN, OS 5-2898 after 5 p.m. L

RIDE wanted to Grants Pass, Oregon, phone between 10 a.m. and 3 p.m. or all day Saturday or Sunday, GEORGE KNIGHT, OSborne 5-4545. L

COMPANION, housekeeping or general nursing position, elderly woman with 11 year old girl, room and board, small salary, LEE CAUBLE. Reply in writing to Northrop News, Box 2434. L

DEEPEST THANKS to the people of Northrop and the Northrop Blood Bank for the lifegiving blood which they so graciously gave to help save the life of my Mother. May God bless you all and keep you well. N. L. BROWN and FAMILY. L

PRACTICAL NURSING, hospital experience, any case, live out, call evenings, PL 4-3554 L

MESSAGE to my friends at Northrop: I want to thank all of you for the many ways you have shown your kindness toward me during my recent illness, FRED C. MUDGETT. L

RIDERS WANTED, leaving July 23 for Louisville, Kentucky via Denver, Omaha, Columbus, Ohio, round trip, returning August 15, take three riders, new car, G. B. SABOURIN. Reply in writing to Northrop News, Box 2428. L

MAPLE STREET – LYNWOOD SCHED COMBO DANCING

Lynwood and Maple Street Norcrafters have announced plans to hold the first annual combined Lynwood and Maple Street Warehouse dance under NRC auspices on July 31.

To be held at the Morningside American Legion Hall, Inglewood, the dance is being planned by a committee headed by Scotty Smith as chairman.

Jerry Taylor is making arrangements at Maple Street; Bill Landry is acting as NRC representative. Others on the committee are Maxine Faulk, Susan Buchanan, Les Hawthorn, Della Wells, Ann Gaw and Nita Milne.

Musical menu for the night features Byron Harkins' band. There will be door prizes, too, the committee announces.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information in activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m., Leuzinger Gym. Beginners welcome.
BOAT CLUB
Elmer Chiodo, commissioner
Next meeting Monday, July 12, NRC Clubhouse, 7:30 p.m. Fourth of July Cruise to Catalina.
BRIDGE CLUB
Walt Darby, acting commissioner
Meet 2nd and 4th Tuesday of month at NRC Clubhouse.
CAMERA CLUB (day)
George Fuller, commissioner
Meet every other Friday evening NRC Clubhouse, 7:30 p.m. Next meeting July 9. Business meeting and camera study—bring your cameras unloaded.
CAMERA CLUB (night)
Adam Slusarz, commissioner
Meet every other Saturday evening, NRC Clubhouse. Next meeting July 10, 7:30 p.m.
FENCING CLUB
Ray Beste, commissioner
New group now forming. Will meet every Tuesday evening at 8:00 p.m. at Leuzinger High School Girls' Gym.
GARDEN CLUB
Burt Binge, commissioner
Meet every Wednesday, 12:15 noon, Plant III Photo Conference Room.
GEM AND MINERAL CLUB
Art Westermann, commissioner
Meet fourth Wednesday of each month at the NRC Clubhouse. Next meeting July 28, 7:30 p.m.
GOLF CLUB (day)
Jim Milne, commissioner
Twilight leagues at Western Ave. and Alondra Park Golf Course each evening, Monday through Thursday.
GUN CLUB
Dick Booth, commissioner
Meet every other Tuesday, 7:30 p.m., NRC Clubhouse. Next meeting July 6.
MIXED CHORUS
Ken Schumacher, commissioner
Meet every Wednesday evening at NRC Clubhouse, 7:30 p.m.
MODEL RAILROAD CLUB
Meet every Thursday evening, 7:30 p.m., 4411 W. Redondo Beach Blvd.
PHILATELIC CLUB
George Borton, commissioner
Philatelic and Numismatic combined club meets 2nd and 4th Monday each month. Next meeting July 12, NRC Cluhouse, 7:30 p.m.
PLAYERS GROUP
Rodger Williams, commissioner
Meet every Wednesday evening at NRC Clubhouse Annex, 7:30 p.m.
RADIO CLUB
Meet 1st and 3rd Tuesday of each month at NRC Clubhouse Annex, 7:30 p.m. Next meeting July 6.
RIDING CLUB
Cliff Snudden, commissioner
Night ride every other Saturday beginning July 17 at 7:00 p.m. Circle Bar Ranch. Call PA&S for reservations before Thursday, July 15.
SALT WATER FISHING (day)
Bill Dean, commissioner
Boats will run July 17, Aug. 14, Sept. 4. Fishing license can be acquired at PA&S.
SALT WATER FISHING (night)
Chuck Bija, commissioner
Boats will run July 18, Aug. 15, and Sept. 5. Fishing license can be acquired at PA&S.
SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next shoot July 10.
SKIN DIVING CLUB
Gordon Grant, commissioner
Meet 3rd Monday of month, NRC Clubhouse, 7:30 p.m.
SOFTBALL (day)
Tom White, commissioner
League play under way Monday, Tuesday and Thursday, Rosecrans Playground; Wednesday and Friday, St. Andrews Playground.
SOFTBALL (night)
Paul Crowley, commissioner
League play in progress daily. Rosecrans Playground; Monday and Tuesday at Sportsman Park.
SPORTS CAR
Doug Hugill, commissioner
Meet second Thursday each month, NRC Clubhouse.
SQUARE DANCING
Fred Brant, commissioner
Meet at Swimms Barn, 15016 Daphne St., Gardena, from 7:00 to 10:00 p.m. Meet 1st, 2nd, 4th and 5th Sundays. Club will not meet on July 4. Pot Luck Dinner and Dance, July 11, 5:00 p.m.
SURF FISHING
Ralph Schamp, commissioner
Meet NRC Clubhouse, 7:30 p.m., 1st Tuesday. Next meeting July 6.
SWIMMING
Leuzinger Gym open Wednesday and Friday afternoons, 4:30-6:30.
TOASTMASTERS 212 (day)
Ernie Boren, representative
Meet every Thursday eve., 6:30 p.m., Western Club, Gardena.
TOASTMASTERS 1398 (night)
Ned Reese, representative
Meet every Thursday, 12:30 p.m., at Bill's Steakhouse on Crenshaw Blvd., just north of Manchester.

It's Quints For NRC

THREE BOYS AND TWO GIRLS—. Newest members of the NRC "family" are newly elected commissioners, seated, front: Kay Stuart, Flower Club; Jean Ward, Women's Bowling. Standing, left: Art Westermann, Gem and Mineral Club; Harold Guess, Bowling; and Gordon Grant, Skin Diving. Harold and Jean are already looking forward to the coming fall bowling season. Kay states that the Flower Club has valuable information for all flower lovers; Art's rock hounds are finding bigger and better specimen for their displays; and Gordon says that now is the time to try the skin diving sport. New members welcome.

Greens Men Battle To Top League

NRC Twilight League golfers—approximately 300 strong—are teeing off every Monday through Thursday at the Alondra Park and Western Avenue golf courses to determine league champions.

Leagues play at 4:00 and 5:00 p.m. on each course.

The contest includes twelve leagues of ten to fourteen two-player teams and league champs will play off to determine NRC award winners.

Competition is scheduled through the first of September.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Dorothy Hodgson, Personnel Activities and Services, 2784.

BALLET CLASS (night shift)
Lessons scheduled every Thursday, 11:00 a.m. to 12:00 noon, NRC Clubhouse. First lesson on Thursday, July 1. Instruction provided free.
BOWLING
Jean Ward, commissioner
League now in progress at Hawthorne Bowl, Tuesday, 6:30 p.m.
FLOWER CLUB
Kay Stuart, commissioner
Meet second Tuesday, 7:30 p.m., NRC Clubhouse. Next meeting July 13.
GOLF CLUB
Golf lessons now in progress every Tuesday, 7:00-8:00 p.m., Culver City Golf Course, Jefferson at Sepulveda. Lessons are $1.00 plus $.40 for bucket of balls. Golf clubs furnished free.
INTERIOR DECORATION
Meet every Thursday, 7:30-9:00 p.m., at NRC Clubhouse. Lecture- demonstrations on principles of interior decoration. Register at PA&S.
KNITTING CLUB
Nina Shannon, commissioner
Meet Tuesday, 7:30 p.m., NRC Clubhouse. Instruction provided.
SOFTBALL (day)
Donna Avazian, commissioner
Group I — League play commences Thursday, July 1, at Ladera Park, 6027 Ladera Park Ave., 7:30 to 9:00 p.m. Group II (day) — Practice sessions Tuesday and Thursday, 4:30 to 6:00 p.m.
SOFTBALL (night)
Practice sessions and games now in progress every Tuesday and Thursday, 11:00 a.m. to 1:00 p.m., at Ladera Park, 6027 Ladera Park Ave.
TOASTMISTRESS
Peggy Barber, representative
Installation dinner meeting, Thursday, July 1, at Armand's, Manchester at Van Ness, 7:30 p.m.

Barracuda, Yellowtail Challenge Fish Hunters

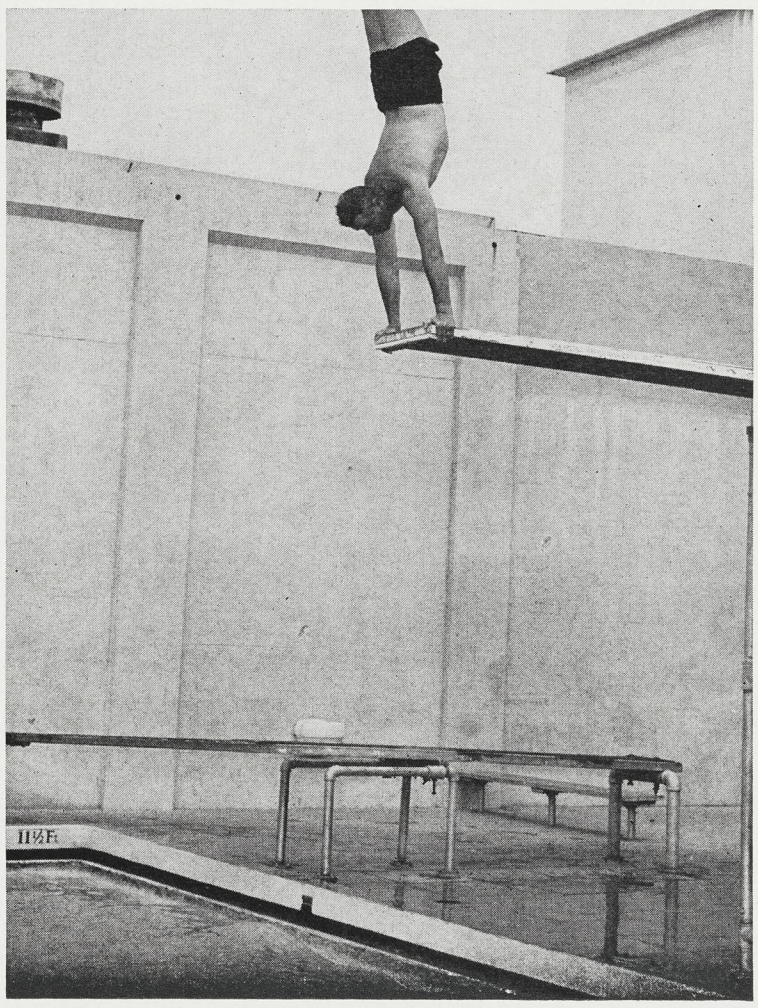
Local waters are churning with yellowtail and barracuda, according to NRC fishing stalwarts.

Salt Water Fishing Commissioners Bill Dean (days) and Chuck Bija (nights) invite all Norcrafters to register for the next cruises of the Kiru and Terleen on July 17 and 18, respectively. Boats cast off from Joe Martin's Twenty-second Street landing, San Pedro, at 3:00 a.m. Anglers may contact PA&S, ext. 2784, for reservations.

In addition to the pleasure of hooking a "big-one", the NRC offers an array of prizes to lucky fishermen.

Boat prizes on each cruise are salt water reels to be given to the fisherman with the largest fish. Monthly awards for the fish-of-the-month are top brand fishing rods and a chance at the NRC annual trophy awarded for the largest fish caught in California waters.

Fish registration slips and tables of weights and measures may be obtained at PA&S offices.

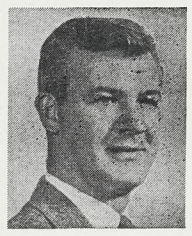


HARD WAY—. Trying out the diving board at Leuzinger High School pool on opening day of the NRC Swimming season is Gordon Grant, Skin Diving comish and NRC life guard. Dave Garrett is second life guard. All swimmers reported the water fine and Norcrafters are invited to "come on in". Adults may swim on Wednesdays and Fridays from 4:30 until 6:30 p.m., children on Fridays.

Sailors To Hoist Hook This July 4

By JOE CARVER
President
Northrop Recreation Club

NRC Boat Club members are the busiest people! If they are not planning a party, dance, cruise, or a small steak fry for one or two hundred people, they are busily scraping, painting, and cleaning their boats or helping a fellow member on his. And they love it.



The Club was first organized on October 1, 1951. The original registration was 15 members and 5 boats. The roster now contains 188 names and 45 boats.

Again, as with other NRC clubs, this is one of the only clubs of its kind in the airframe industry.

Object of the group is to assemble people interested in boats—any size. Boat Club registrations range from a 14-foot outboard utility to a 48-foot diesel cruiser. This has proven to be a wonderful arrangement. The large boats serve as protectors to the smaller ones, enabling the small boats to venture much farther out to sea than would be safe for them alone.

Boat Club activities are extremely popular and it isn't necessary to own a boat to participate.

Club dances are favorites of many Norcrafters, and when the sailors announce a cruise—such as the Memorial Day run to Catalina—there is a rush for berth space on the charter boats provided for land-bound sailors.

In addition to dances and cruises, Boat Club members are offered a variety of yachting movies, navigation and seamanship instruction, information on taxes, weather, mooring, and where to get the best yacht parts, as well as help in repairing and building boats.

The next big cruise of these week-end sailors will be the July 4 run to Sandy Beach, Santa Catalina.

This time the events of the cruise will be recorded on film for future entertainment of members.

This will be a movie that all BC members will look forward to.

THE Northrop Scene BY DAY AND NIGHT

IN GLORIOUS SONG—. Charles Nixon directs, Commissioner Ken Schumacher plays, and members of the NRC Mixed Chorus lift their voices in song during recent rehearsal. Group has brought music to many, via benefits played in hospitals and institutions. Next trip will be on July 24 to Crippled Children's Hospital. Songs range from sacred to popular. Commissioner Schumacher says that more ladies' voices are needed, especially altos.

Teacher

"A HOBBY SHARED is best enjoyed", according to William K. "Bill" Bledsoe, Edwards Flight Test, nights. Bledsoe teaches a class of 15 teen-age boys the art of model-making at his home near Edwards in spare time. He holds Fokker D-7 model which is complete to last detail—has made many other models including "Super Zilch", a full-stunt airplane. Bill is a two-year Norcrafter with one year at Edwards.

For Mountain-top Book

CLIMBER'S REWARD—. "Arbo" Arbogast, Standard Tooling and Development, reaches his goal in a recent climbing trip in the El Paso range. Goal was the 5289-foot marker on the summit of Black Mountain. Arbo and his 12-year old son, Roy, scaled the peak in a 6½-hour round trip climb while in the Last Chance Canyon area. Any other mountain-climbing folk with summit pix? Send to News Office.

GUIDANCE RESEARCH—. What might look to the layman like a couple of characters on a crazy mixed-up bicycle could very well be painstaking research into detached tandem elements of advanced which way do we go? Men in white are Guidance Development Norcrafters A. C. Burton, left, and R. H. Stratton. They have not disclosed anything. They admit only that they have come achingly close to the answer.

BLASTED from Hawthorne City Hall during simulated disaster, Hawthorne C-D defenders move to Northrop control center. Busy at test are, standing: Steve Sessions, Jim Crabbe—Sea Scout messengers; seated, l. to r.; Chiefs Don Weaver, Communications; Hugh Tierney, Red Cross; H. P. Severns, Police; Paul Mandel, warden; T. S. Dardis, Transportation and Evacuation; T. B. McDermott, engineer. Seated, right front, are Sophie Felt, operator; and Joy West, Fire chief.

CD TESTS reported crews alert ready to function. From left: May Hawkins, Northrop Civil Defense Office; H. J. Swartz, Industrial Engineering; (front) Vivian McDonald, Hawthorne City Hall; Maxine Lonsdale, Northrop Plant Security and Protection.

Northrop News

SOUVENIR ISSUE • JULY 10, 1954

FIFTEENTH ANNIVERSARY

USAF Scorpions on Arctic Patrol

NORTHROP Aircraft..... 15

Northrop Aircraft is a major manufacturer of products vital to the defense of the United States.

The company is dedicated to these business principles: proven designs—highest quality—sound modern production methods.

In August of 1939 Northrop made its first home in a small converted hotel building in Hawthorne, California, which boasted only 9,000 square feet of work space and was manned by a force of six persons.

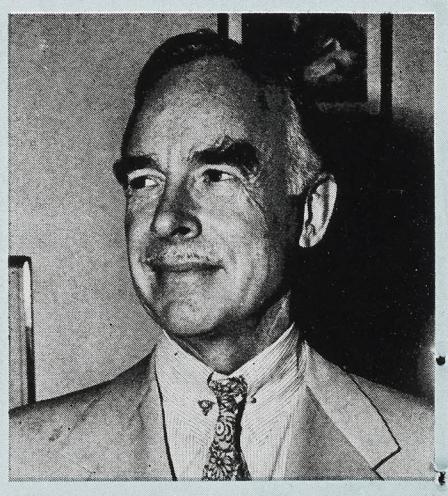
Know-how, a will to work together in industrial harmony, and the traditional spirit of American enterprise soon had the small company making itself known in the aviation world. It came rapidly to the front during the busy World War II years to take on international significance.

Today's sprawling Northrop plants and facilities are a far cry from that first small shop. Total floor space now measures 3,155,968 square feet.

Present total backlog is an all-time high—$559,000,000.

This anniversary commemorates 15 years of progress and pays tribute to the men and women who, through teamwork, application of know-how, and staunch effort, have made the company an outstanding example of industrial accomplishment in America.

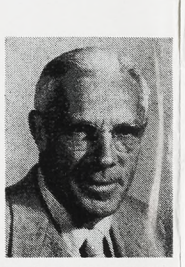
WHITLEY C. COLLINS
PRESIDENT AND CHIEF EXECUTIVE OFFICER



WILLIAM C. McDUFFIE
CHAIRMAN OF THE BOARD

FIFTEEN YEAR NORCRAFTERS

Pride of achievement is reflected on the faces of the Norcrafters pictured here who on this anniversary received the first of the diamond-studded fifteen-year pins to be awarded by Northrop. Next year and in ensuing years hundreds of others who have played an integral part in the history and development of the company will be proud recipients of the same commemorative pin.



TOM CHITTENDEN
AUGUST 20, 1939

C. PAUL BONHAM
NOVEMBER 16, 1939

FACILITIES AND BRA

Symbolic of the manner in which aviation and communications have "caused the world to shrink" is the ease with which the far-flung facilities of the Northrop company operate, although separated by an entire continent — or by many miles.

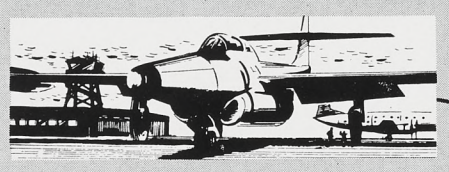
The Hawthorne plants are in constant touch with the New York office, Washington D. C.,

EDWARDS AIR FORCE BASE, Edwards, California: Air Force Test Center for experimental and production aircraft.

PALMDALE AIRPORT: Re-assembly, radar installation and check-out, production flight test and acceptance.

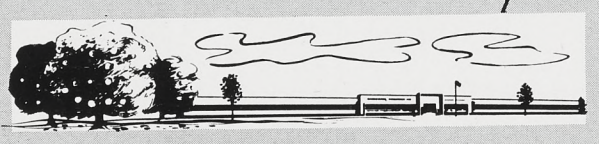
RADIOPLANE COMPANY, Van Nuys, California: The design and manufacture of radio-controlled air targets and components.

LOS ANGELES INTERNATIONAL AIRPORT, Los Angeles, California: Test center for experimental and production aircraft.



HAWTHORNE MAIN PLANT: Design and manufacture of airframe and aircraft components and guided missiles.

ANAHEIM DIVISION, Anaheim, California: The manufacture of precision opto-mechanical instruments, missile and aircraft assemblies.

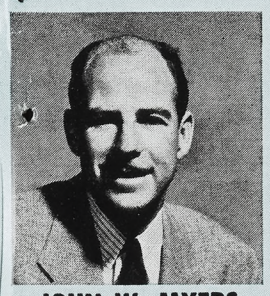


OGDEN, UTAH: Business office and Company liaison with Air Force activities at Hill Air Force Base, Utah.

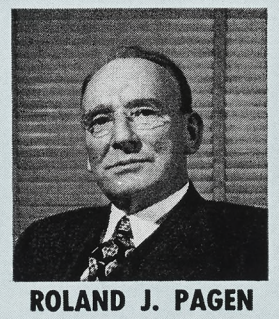
PASADENA OPTICAL LABORATORY, Pasadena, California: Design and manufacture of optical instruments.

ONTARIO INTERNATIONAL AIRPORT: Ontario, California: Sub-assembly, aircraft manufacturing operations.

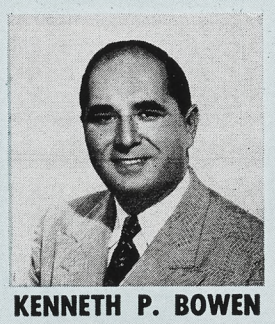
5 YEARS OF PROGRESS



JOHN W. MYERS
VICE-PRESIDENT,
CUSTOMER RELATIONS



ROLAND J. PAGEN
VICE-PRESIDENT,
FINANCE, AND TREASURER



KENNETH P. BOWEN
VICE-PRESIDENT,
MAUFACTURING

EDGAR SCHMUED
VICE-PRESIDENT,
ENGINEERING

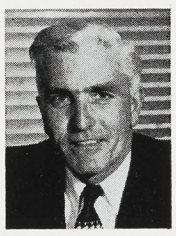
JOHN R. ALISON
VICE-PRESIDENT,
ADMINISTRATION

GEORGE GORE
SECRETARY AND
CORPORATION COUNSEL

ALAN C. MORGAN
ASSISTANT SECRETARY

S. W. TOWLE, JR.
ASSISTANT SECRETARY
(WASHINGTON, D.C.)

CHARLES C. CILLEY
ASSISTANT TREASURER



THOMAS H. QUAYLE
AUGUST 21, 1939

RICHARD R. NOLAN
AUGUST 28, 1939

ROBERT L. EHINGER
SEPTEMBER 5, 1939

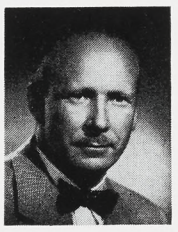
ROBERT S. CATLIN
OCTOBER 2, 1939

WALTER T. GAGE
OCTOBER 2, 1939

C. B. SPENCER
OCTOBER 23, 1939

JOHN J. PFARR
NOVEMBER 20, 1939

CARL RAKER
NOVEMBER 20, 1939



FRED J. BAUM
NOVEMBER 21, 1939

ROY W. LINDSTROM
NOVEMBER 21, 1939

MELVIN N. BROWN
DECEMBER 18, 1939

WILL L. RICE
DECEMBER 21, 1939

BRANCH OFFICES

and with the Cocoa, Florida, facility at Patrick AFB, along the east coast of the "Peninsula State".

To the north, beyond the San Gabriel mountains, lie the Palmdale and Edwards facilities in the Antelope Valley. Shuttle service from the home plant to these facilities is accelerated by the famed Northrop "Bamboo Fleet", in which test pilots and other technicians are quickly flown to their destinations.

Ontario is also serviced in the above manner, augmented by a twice-daily bus service.

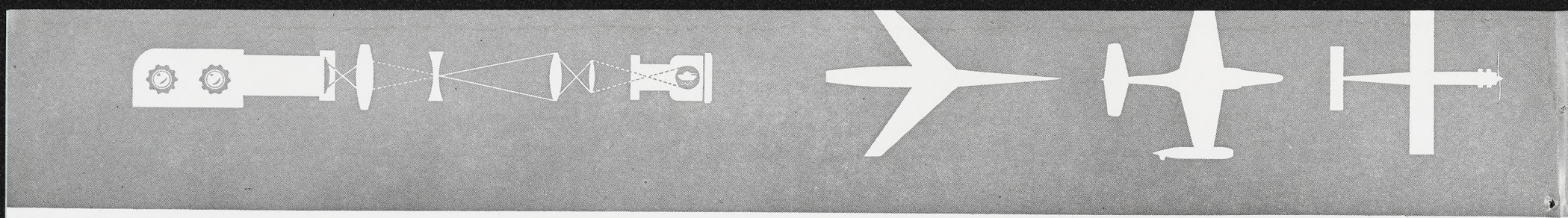
Although complex, the smooth functioning of the many integral parts of the entire Northrop organization, whether Dayton, Ogden, or any other facility, is a tribute to Northrop planning and teamwork.

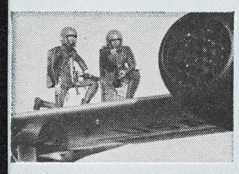
NEW YORK CITY, NEW YORK: Business office and Company representation and liaison with vendors on the East Coast.

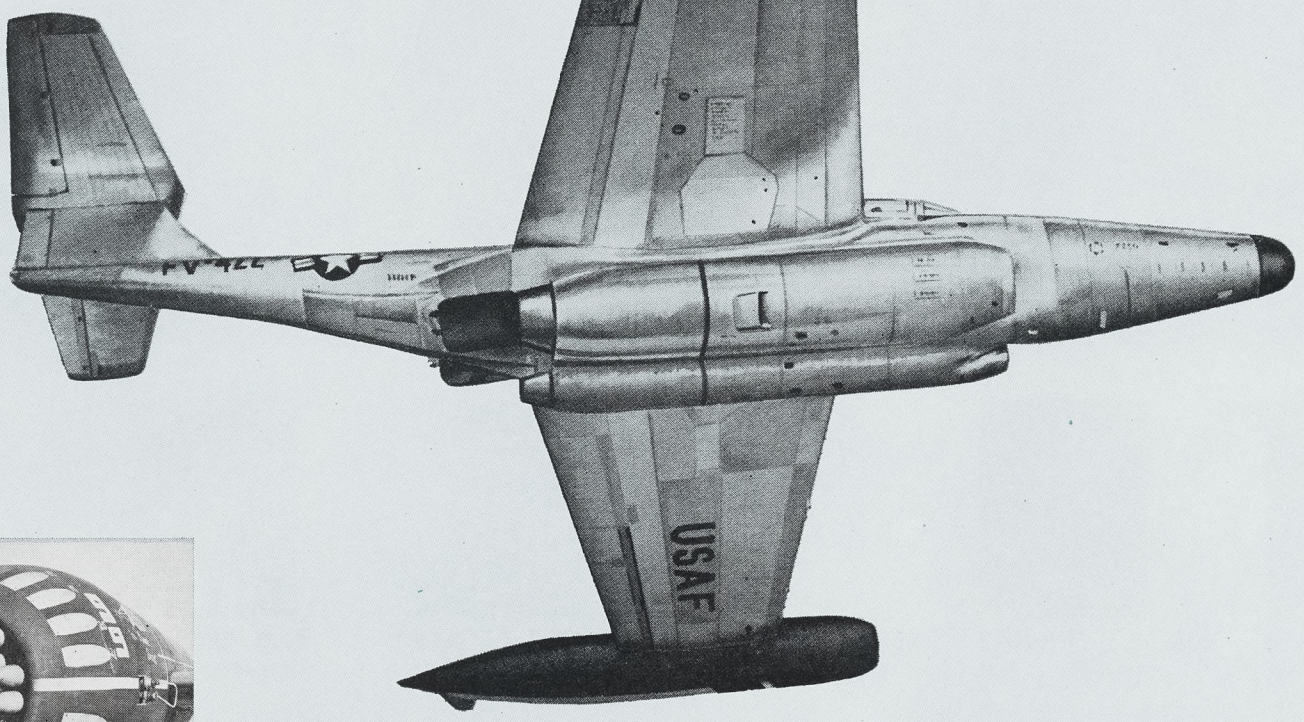
WASHINGTON, D. C.: Business office and Company representatives; liaison with various Government agencies.

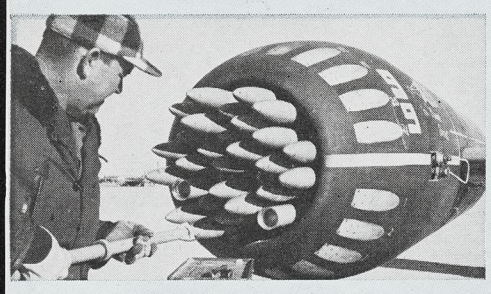
DAYTON, OHIO: Business office and Company representatives; liaison with Air Force facilities at Wright-Patterson Field, Dayton, Ohio.

PATRICK AIR FORCE BASE, Cocoa Beach, Florida: Air Force Test Center for guided missiles.





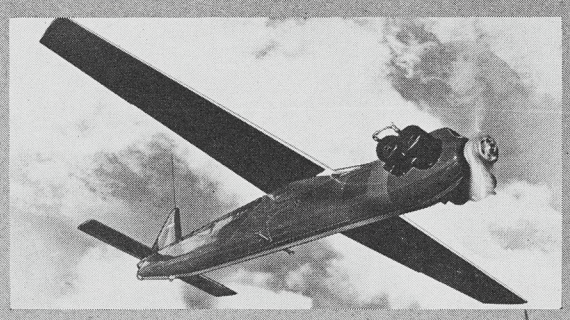




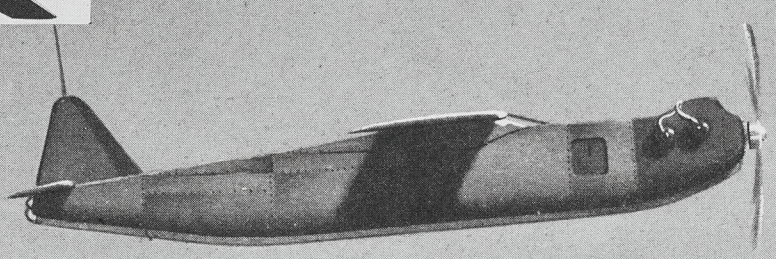
U.S. AIR FORCE

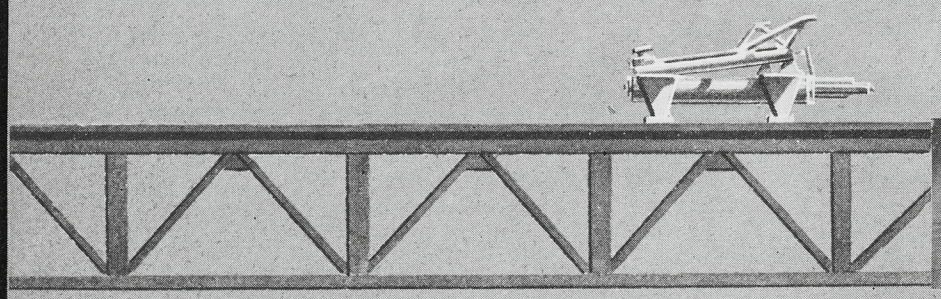
Principal product of the Northrop company is the F-89D Scorpion. This rocket-armed aircraft carries 104 air-to-air rockets in wing tip pods—the heaviest lethal punch packed by any fighter aircraft in the United States service. Equipped with radar and electronic navigational installations, the airplane operates under all-weather conditions at any time of year or any hour of day or night. Both the rocket-armed version and earlier cannon-fanged F-89Cs are twin-jet two-place fighters capable of operating at altitudes above 45,000 feet in the 600 miles-per-hour speed class. The Scorpion was designed from the outset for the mission which it now fulfills—the defense of the continental United States. Its heavy armament, extreme range, and high performance make it most useful for this task.

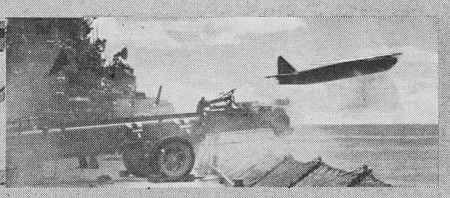
Twin Allison J35-A-35 jet engines are responsible for

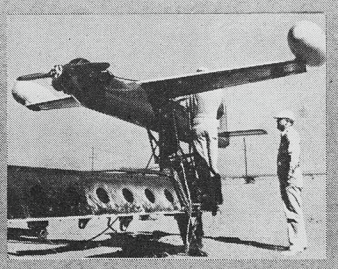


RADIOPLANE





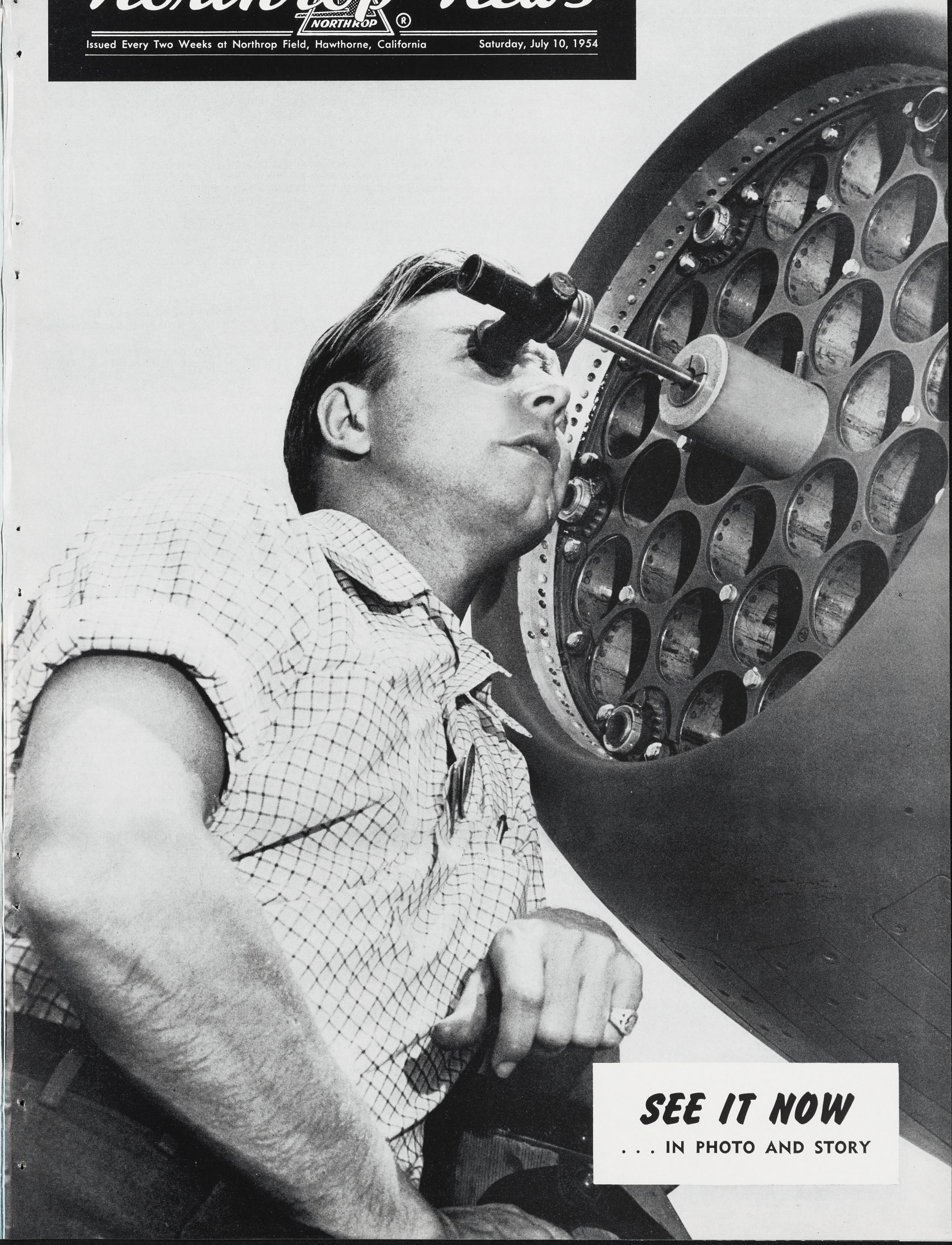




Famed "R-CAT", known to gunners of the Air Force, Army, Navy, and National Guard, is the radio-controlled aircraft manufactured by Radioplane Company, Van Nuys, California—a wholly-owned Northrop subsidiary. The target aircraft is capable of high speeds, thus giving gun crews practice on a target moving at speeds comparable to those of enemy aircraft. Its maneuverability provides a high challenge in the training of anti-aircraft personnel. When the target is hit a parachute allows the plane to descend safely. Radioplane Company was founded in July, 1940, and has produced upwards of 30,000 target planes.

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California — Saturday, July 10, 1954

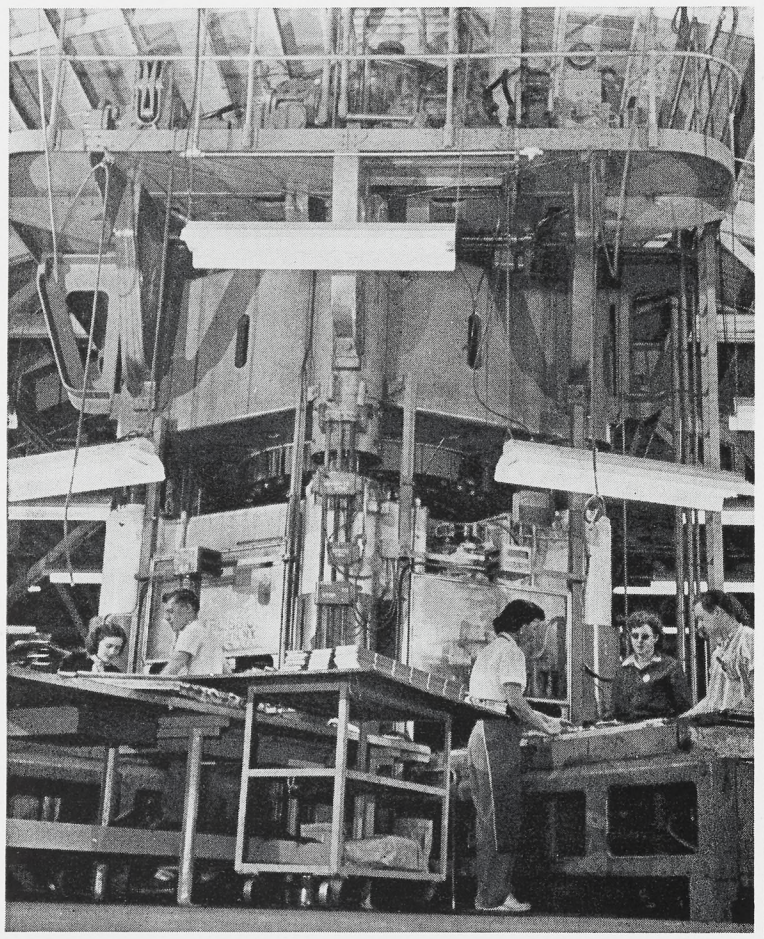


SEE IT NOW

. . . IN PHOTO AND STORY

Sights on Tour Route

SUNRISE CEREMONY every day of the year is carried out by a regularly assigned Plant Security and Protection officer. The nation's emblem is raised (above) by Officer M. R. Freeman in front of the recently refurbished Plant One lobby.



TWO CREWS of Norcrafters can operate huge Hydro-Press at same time. Preparing work, from left: Doris Thomas; Harold Wagner; Hazel Nash; Josephine Ryder; and leadman E. J. Bueltel, Sheet Metal.

FUSELAGE LINE adjoins final assembly in huge hangar at eastern end of Plant One. View shows fuselage sections after they have been joined. They are made in clamshell fashion to facilitate work of mounting parts in structure.

Northrop—Vast Family of Divisions Works Toward Common Goal

(Ed. note:—The thousands of visitors who saw Northrop today viewed much of the equipment that helps to make the Scorpion. But it is impossible to present, in a tour, all facets of a company's character, or a complete description of its activities. There follows below a general review—based on company divisions—of the many and varied functions comprising Northrop Aircraft, Inc.)

Perhaps the best answer to the question, "What is Northrop?" lies in a breakdown of the aims and duties of the closely-interlinked divisions which comprise the company. Coordinating activities of the entire company is the office of the chief executive which also includes the overall functions of the legal department, Management Control, and the Dayton and Washington offices.

Each division has its own philosophy of achievement—adding to an over-all total of service to the nation's defense effort, and to the benefit of the individual taxpayer, as outlined in the slogan "More Aircraft Per Dollar Than Ever Before".

CUSTOMER RELATIONS

Largest percentage of business at Northrop is with the military, and it is the duty of the Customer Relations division to acquaint the company with the needs of the customer, before a specific airplane or article of defense materiel is made.

Customer Relations follows up the original contact with many product services, which include technical representation, cost estimating, publication of maintenance and pilot's handbooks, administration of spare parts and major contracts, and spare parts catalogues.

ENGINEERING

When a contract is granted, Norcrafters of the Engineering division must first put the desired airplane on paper—it must be designed.

To do this many different departments within the division are called into action—power plant, aerodynamics, controls and control devices, structure of wings, fuselage and empennage, and armaments and their placement within the airframe are among the host of considerations required for a good design.

MATERIEL

Next, the Materiel division must see to the purchase of the raw materials as recommended by the Engineering division. Here much research must go into the purchasing of the countless tons of metal, thousands of miles of wire, of fittings, and other components.

Purchase of fabricated parts and standard equipment; procurement of government furnished parts and their proper supervision; and the warehousing of vast stores of all goods are among Materiel's duties.

MANUFACTURING

Manufacturing division's task begins in the tooling of the shop for production. Jig builders produce jigs, from plans of tool designers, which permit swift fabrication of highly precise parts.

Tool fabrication calls upon skills of woodshop men, machinists, plaster artisans, pattern makers and many others. Meanwhile, the shop is readied and planning goes on at all times by industrial and plant engineers to insure utmost efficiency of the factory.

Methods and operations are analyzed, assembly lines are closely studied and are constantly improved. As the airplanes begin to take shape the many electrical and mechanical components are installed, the airplanes and parts are painted, engines tested, and finally the Scorpions are flown away for delivery acceptance test flights at Palmdale facility or for experimental work and flight at Edwards.

Moving spirit of this division is to produce a top-notch product according to schedule.

QUALITY CONTROL

Insuring the quality of all Northrop products are the Norcrafters of the Quality Control division. To these people falls the task of seeing that quality is an integral part of the product. It has been aptly stated that "you cannot inspect quality into the article—you must maintain tolerances and standards as you go through each step of manufacture."

INDUSTRIAL RELATIONS

The human relations fact—as stated in the company manual, "Working With Northrop"—that no Norcrafter is merely a "cog in the wheel" is the operating philosophy of the Industrial Relations division, which includes Plant Security and Protection.

Industrial Relations functions are largely in the nature of services to the company as a whole and to the individual Scorpion and Snark builder.

These service functions are aimed at the well-being of Norcrafters during both workday hours and leisure time activities.

FINANCE

Pay checks which are received each week are only one of the many services performed by the Finance division, and yet the task of processing these checks and preceding task of checking time cards and other wage records is monumental. Huge banks of tabulating machines are needed to maintain the flow of paychecks and other documents, which include the general work of auditing in all phases.

PUBLIC RELATIONS

Public Relations department keeps the world informed of company products, developments and trends. News released by this department is carried in newspapers, trade journals, and national magazines. Motion pictures are released to television stations and by many other means, such as newsreels.

FLIGHT

The Northrop Flight department carries out all flight activity for the company, both in Scorpions and airplanes under bailment from the Air Force.

Worth of all the skilled activity and ability to work and progress as one is reflected in the beauty of the Scorpion and the Snark as they soar the skies in defense of the nation.

ANAHEIM

The Anaheim Division combines sub-assembly work for the Northrop Scorpion and missile contracts with contractual work for Ordnance and the United States Navy.

The division has become best known for manufacture of high precision opto-mechanical devices.

Northrop News

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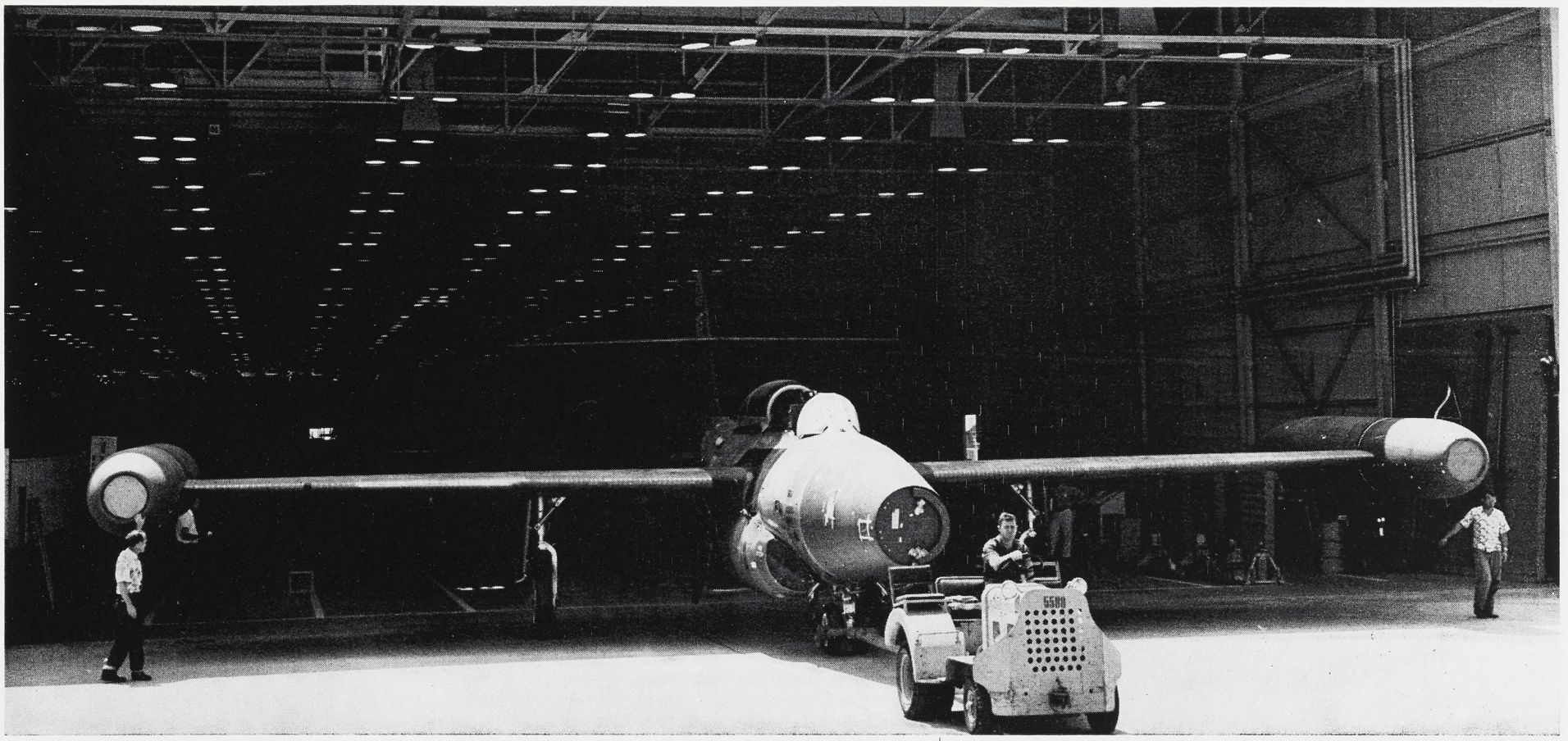


CONTRACTS—AND THE FUTURE

SCORPION—NUMBER ONE PROJECT

Working toward a common goal of service to the nation—and to the communities of which they are a part—24,000 Norcrafters are presently engaged in making a number of diversified products for national defense.

Number One product, of course—involving the efforts of personnel in Hawthorne, Ontario, Edwards, Anaheim, and Palmdale—is the F-89D Scorpion. Deliveries under latest announced contracts are scheduled to run through August, 1956.

Residents of the Southland have become increasingly familiar with the role of the Scorpion and with the look of the Scorpion production lines as the result of television presentations during the past few months from the assembly lines.

Not as well known—due to restrictions imposed by security considerations—are the efforts of Norcrafters in the guided missile field. These relatively new weapons are being built for testing at Northrop's facility in Florida.

Long known as a progressive firm in the field of research, the company continues studies in many fields, among them programs involving flight controls, boundary layer studies, aircraft cooling systems, fuel systems, and many others.

There are training programs carried on by the company for Air Force and Northrop personnel in the field to transmit most efficiently to the people using Northrop products the know-how gained in production.

Highly precise opto-mechanical devices come out of the Anaheim division and the Pasadena Optical Lab; the former is pitching into Scorpion production, missile work, and rocket production for the Navy.

Turning out target airplanes is the Radioplane subsidiary at Van Nuys. The greatest part of target aircraft used by the military services comes from this plant.

As does any other forward-looking concern, Northrop is constantly studying future needs of its customers, with the view in mind of designing products which will be ready to meet those needs in time. The search for new contracts is an ever-continuing one.

While seeking to make the future secure, the company is exerting its every capability to meet its present commitments.

President Whitley C. Collins recently made this statement:

"Northrop, as never before, is devoting its efforts to development and manufacture of products needed for national defense. By corporate enterprise we can increase our productibility, and insure our future and the future of our country.

"Our efforts will accrue to the national good. We will give our customers and the American people more defense for their tax dollar."

Faith, dedication to duty, and earnest effort marked the past and are evident in the present. To Norcrafters the future is a challenge, but they believe that the future will not fail to shower plenty upon those who meet it with stoutness, vision, and abiding faith.

NORTHROP NEWS CREDITS

Credits for the well balanced art layout and front cover of this commemorative 15-year anniversary issue go to several different Norcrafters of the Customer Service Art Services department, commercial section.

Front cover in full color was the work of Jack Leynnwood. The complete layout was the responsibility of Dean Ballin, and art work other than the cover was accomplished by Carlos Munoz, Jim Grey, R. G. Johnson, and Al Schroeder.

All of the work was under the direct supervision of Norton Kinder and Weber Buckham.

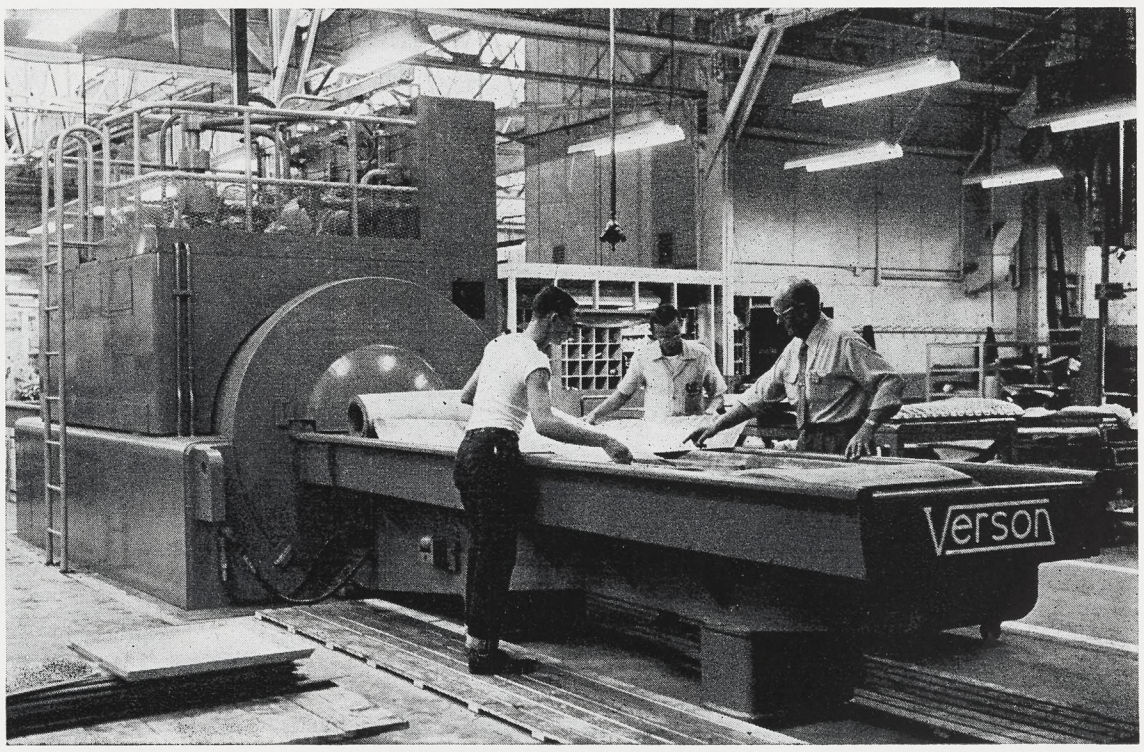
Additional credits are also due all members of the Photographic department and the Public Relations department for their efforts to make the edition successful.

Front cover of this section of the issue is from photo by Val Hawes of the Photo Lab. Shown synchronizing radar with rocket pod is Leadman L. K. Zirn, Radio and Radar.

OUT THE DOOR, ready for pre-flight installations, engine run-ups, and other flight operations preliminaries, goes another Scorpion. Attending the exit of the airplane are Frank Hendrickson, leadman, (driving "mule"); Harold Lyon, (in cockpit); F. C. Douglas, left, and Bill Webb, all of Final Assembly. Next F-89 now moves into final work space.

SCORPIONS on the march down final assembly line show sleek lines of wings and fuselage as busy Norcrafters carry on work at assembly and inspection stations. Modern lighting aids efficiency.

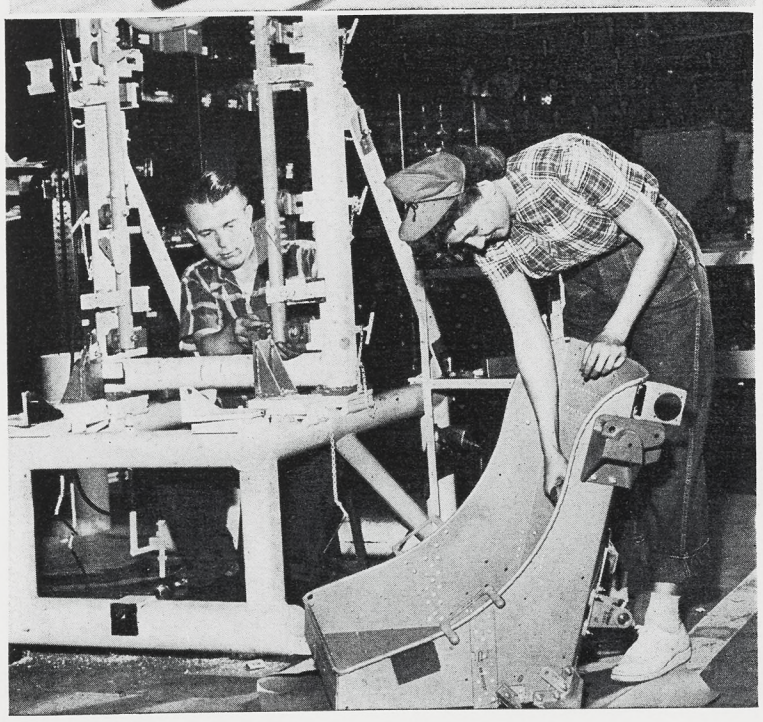
AMONG NEWEST PRESSES at Northrop is Verson hydraulic press (below). Preparing test run are, from left: E. J. "Jack" Turnage; Phil Keller; and Foreman H. L. "Herb" Chastain, Sheet Metal Fabrication. Diaphragm, inflated hydraulically, forces metal into dies, exerts 7500 psi, or area pressure of 38,880,000 pounds.



FIRST ACCEPTANCE FLIGHT by Air Force was occasion for above ceremony at Palmdale facility. From left: Tom McCracken, base administrator; Lieutenant Colonel Willard Webb, USAF; George "Judd" Humphrey, crew chief; and Lieutenant Gilbert R. Mozingo. Two Scorpions (2374 and 2384) undergoing flights at same time entered good natured race for completion of tests. F-89 (2384) piloted by Captain John L. Whitehead, jr., (not shown) was winner. Acceptance tests are now commonplace at Antelope Valley facility.

TENSE launching scene shows the intense concentration which accompanies special weapons tests, such as those now being carried out at Patrick AFB by Norcrafters. This scene was taken at Alamogordo, before Northrop facility moved to Florida. From left: Bill Van Ordstrand, Major Prentice Peabody, Art Behl, Wes Toy. Latter was pictured as he checked out the communications system.

DRAWINGS must be made before production Norcrafters can build an airplane. Thousands of blueprints must also be made for shop use. Shown, from left, are Lee Begin and L. B. Clayton, Preliminary Design engineers, in conference at drawing board. For an idea of scope of draughting facilities see the "Then and Now" pages in the preceding section.



ANAHEIM facility contributes in various ways to Northrop Scorpion production. Here, Max Greiner and Libby Fish work on assembly of one of seats for Scorpion pilots, radar observers. Operation is early one on final seat line.

"Project Hush" Aimed at Cutting Down Jet Noise

Along with their principal product of sheer power — which can propel the Scorpion thousands of feet up in a matter of minutes — the sleek Allison twin engines produce a by-product: —noise.

Cognizant of the situation arising from highly necessary engine tests, Northrop launched "Project Hush" three years ago in the interest of its personnel and neighbors.

Four giant sound mufflers, specially-designed to "kill" nearly 90 per cent of the sound of jet engine runups, are the hub of activity for the project.

In addition to the four mufflers, built at a total cost of over $250,000, Northrop employs a crew of sound technicians to take periodic electronic measurements of the noise level in neighborhoods surrounding the plant.

To further aid in its "Project Hush" campaign, Northrop has had a "curfew" schedule in effect for its engine runups since 1953. No test runups are made out of the sound mufflers. In the mufflers, runups with afterburner (extra powerful jet installation) are permitted only until 8 p.m. No runups can be made after 11 p.m.

The company has established a sound control committee, made up of Northrop personnel who conduct continuing studies to determine new methods of controlling jet noise. Constant improvements in Northrop's sound control techniques are being made as a result of this committee's work.

Northrop's new mufflers are built to a unique, proved design developed by the company to meet the peculiar requirements of the twin-jet, afterburner-equipped F-89 airplanes. Resembling long, horizontal chimneys, the mufflers are built of hollow, volcanic ash blocks.

Company officials say they are gratified by the success of the project to date and will continue to exert every effort to reduce the noise created by ground operation of jet aircraft.

Four mufflers are used for ground engine operation of completed airplanes, and there is a fifth muffler used for quieting test runs of engines prior to installation in aircraft.

Two Million Weekly Pay Into Towns

The weekly payroll of Northrop Aircraft's 24,000 personnel, which amounts to more than $2,250,000, plays a vital part in the business life of Hawthorne, Inglewood, southwest Los Angeles and other neighboring communities.

Approximately 20,000 Norcrafters are assigned to the Hawthorne plant, where Scorpion F-89 all-weather interceptors are built for the U. S. Air Force.

Basing spending habits of Norcrafters on charts compiled by the U. S. Department of Labor, the whopping payroll is distributed through community trade channels as follows:

Norcrafters' expenditures for food and food products swell the tills of food markets, dairies, bakeries, and restaurants to the tune of $742,500 each week.

Another $438,750 is spent each week for housing—whether the individual rents or is buying his home.

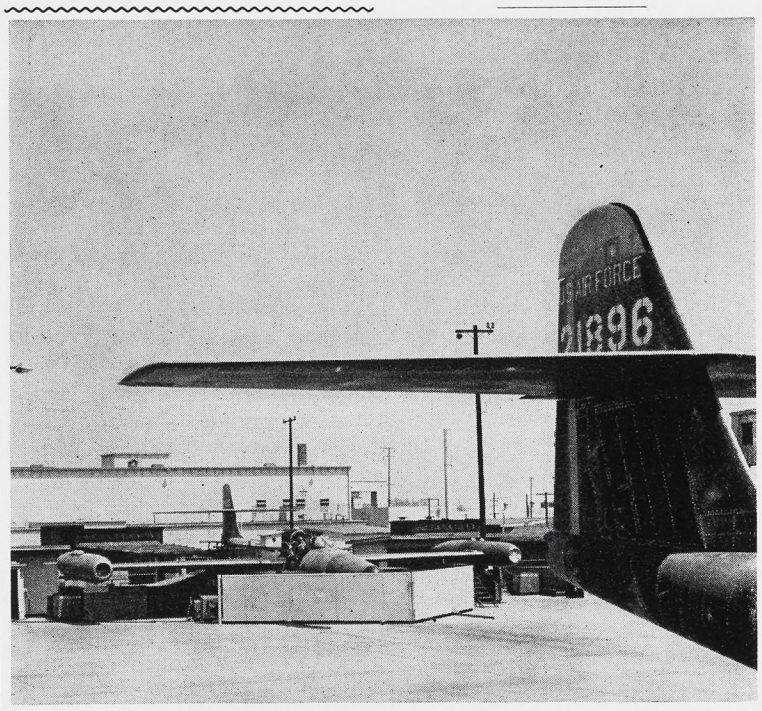
Forty per cent—or $900,000—goes for clothing, furniture, appliances, automobiles and other durable goods.

On the thrift side, Norcrafters each week save more than $168,750 by investments in Savings Bonds and insurance and in bank accounts.

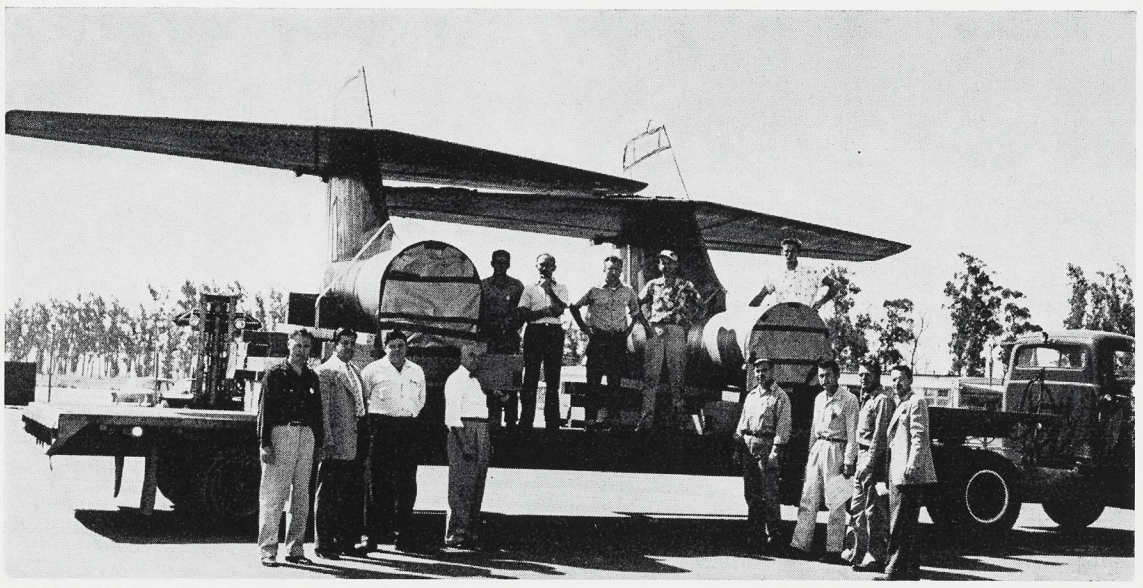
Based on Department of Labor statistics, distribution of the Northrop payroll by the company's 24,000 Norcrafters provides employment for another 43,200 persons in the communities in which they work and live.

The payroll story is only part of the saga of company-community relations, illustrating one of the many ways in which the activities of both Northrop and the community are interwoven.

Buy Bonds



PROJECT HUSH at Northrop employs four specially-built mufflers, like that shown here, for suppressing noise made by jet engines. Company also sends out sound technicians to measure noise level in neighborhood, has self-imposed restriction on times when jet engine run-ups can be made.



DOUBLE TAKE—. Used to be that Scorpion empennage assemblies made at Ontario facility were hauled to Hawthorne one at a time. This recent innovation, double-loading, is pride of, from left—Chaney Bruce, Internal Transportation: Edward Rhoach and Raymond Cleveland, Empennage Assembly; Herbert Putnam, Area Engineering; Virgil Maniago, AF pilot, Palmdale; then David Dunham, William Grundy, Jesse Johnston, James Green, Edward Carrado, Donald Sheridan, Alfred Johnston, all of Empennage Assembly; and Arthur Cerny of Quality Control. Northrop transport innovations are famous.

EVERYMAN — EVERYWOMAN

FROM EVERY STATE IN OUR UNITED STATES

What is a Norcrafter?

A Norcrafter is many things, and many people . . . but he is someone apart, too, by virtue of the place he works.

AADNESEN

He is as varied in character as 24,000 people can be . . . from A (for Anne Aadnesen, 8100-50) to Z (for Frank Zywiciel, 5544-257).

He's from Iowa, Illinois, and Indiana; and from New York, New Jersey, and Washington. He is a native Californian or a native Floridian, working in his home state.

He's a neighbor—your neighbor—or someone so much like your neighbor that if he were to move next door tomorrow, your neighborhood would change very little.

The Norcrafter is Sam Noday, the senior Norcrafter who went to inactive duty only recently . . . or Virginia Otto, who won a sizeable Suggestion Award for an ingenious idea . . . or Abdenoor Kander, the cartoon man with laughter built into his fingertips.

The Norcrafter is the girl who says "good morning" to you when you call Northrop Aircraft . . . and Ed deVoss, with a million-dollar idea . . . and Tom Polliard with a drill duplicator.

A Norcrafter is the courteous and efficient secretary who smilingly arranges your appointment along "mahogany row" . . . or the girl painstakingly laying out wiring on an electrical harness board . . . or the janitor who quietly sweeps away the clutter left by a busy day. . . .

The Norcrafter is the pilot, winging through the high blue . . . and the truck driver guiding his cargo down Imperial Highway . . . and the riveter, welder and model builder.

He is Aaron Neal, working with power plants . . . and Eddie Oliveira, from Hawaii . . . and Ann McCormack . . . and Dona Page . . . and Peggy Willis, from Florida.

He is the clean, intelligent-featured draftsman at the board . . . the tanned and conscientious crewman who watches *his* airplane leave the ground, and waits for its return. . . .

He is the fisherman who rides out with his fellows in the still black cold of mid-night to be ready to cast his bait when the sun first shines on Catalina peaks . . . and he is the man or woman who earnestly pours his studies and his heart into a talk at the head of the Toastmaster or Toastmistress table.

The Norcrafter is Peggy Parks, with her A-1 driving record . . . and Ray Taylor, driving the mule across to Plant Two . . . and Mac McDonald printing large Christmas greetings to the people in the offices he cleans . . . and Jim Bates, who can't see with his eyes, but can "see" well enough with his fingertips to do a craftsman's job.

He works at presses that awe you with their size and with their immense power . . . and he works with equipment that can drill holes through a human hair.

He is Norton Kinder and Al Saiget . . . and Jess Chaney and Dottie Rivers . . . and Freddie Wolfe and Pete Vidano . . . and Luis Lim, who is living proof of the adage —"once a Norcrafter, always a Norcrafter"—when he writes from the Philippines to extend his hospitality to any potential visitor . . .

He works alone in a corner in the lonely vastnesses of the morning shift . . . and he works with hundreds and thousands of others in the brightness of mid-day.

He has been here for only a week . . . or he has been here for three years . . . five years . . . ten years . . . and fifteen. But he is a Norcrafter . . .with capital "N" . . . from the day he walks into the plants.

He cashes his paychecks on Friday or Saturday, and you see him in the shopping sections of Your Town, buying clothes, and groceries, and gasoline for his car . . . or ice cream for the kids.

He is Everyman . . . and Everywoman. But to Northrop—the Company — he is something special: — he is a Norcrafter, someone who is not just a part of a huge and complex machine . . . but a living, breathing, earnestly hard-working human being who does his best when the chips are down, and who beams with pride when his handiwork does its job the way he meant it to do.

ZYWICIEL

How Big Is Northrop—? Figures Are Astronomical

Comparison of today's and yesterday's statistics — in the "how big is Northrop?" category —shows a vast difference between the modest beginnings of the company and its present far-flung facilities.

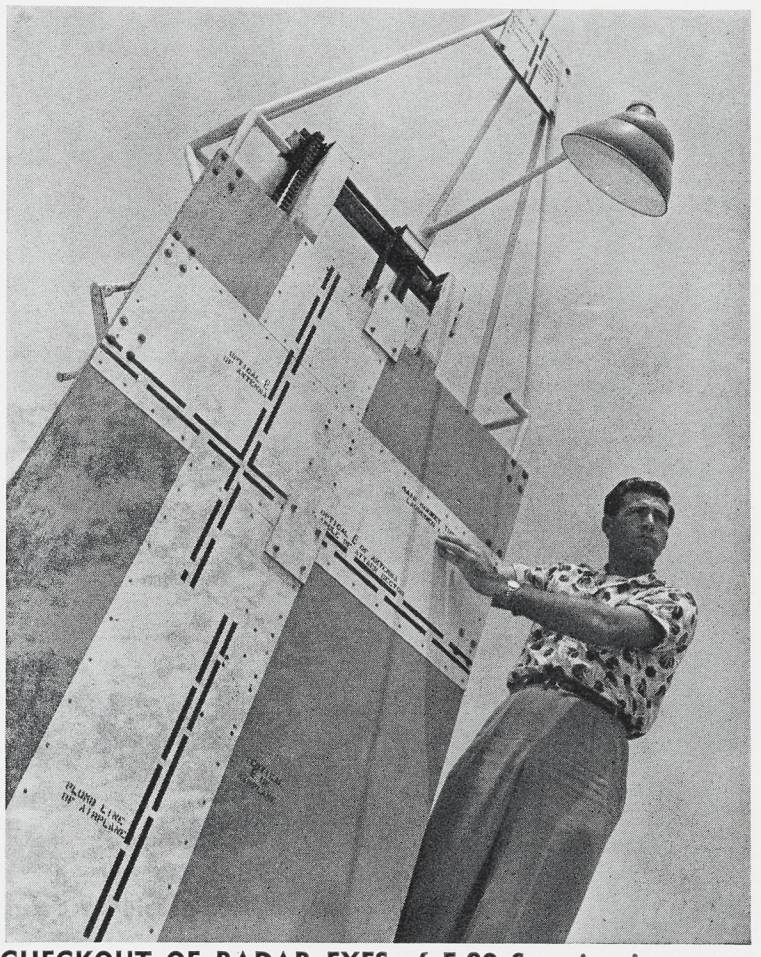
Figures revealed by Industrial and Plant Engineering officials show that the company today occupies 200 buildings in all facilities, representing a *work space* of 3,155,968 square feet (or a total of 72.4 acres) on total land area of 415 acres.

Roofs of these buildings would completely cover 96 acres if laid flat upon the ground!

Electrical power is consumed at the rate of 30,000 kilovolt amperes per month—or four and one-half million kilowatt hours —enough to illuminate a city of 500,000 people!

Proportionately, not as much gas is used as electricity, but enough is consumed to heat and provide cooking facilities for three hundred homes, or three million cubic feet per month.

The figures show that a virtual Niagara of water is used each month, with meters showing consumption of twenty million cubic feet per month—the equivalent of one inch of rainfall over 54,816 acres—enough to irrigate successfully a thousand acres of wheat for 20 years!



CHECKOUT OF RADAR EYES of F-89 Scorpion is accomplished on targets such as above, situated near Radar Building at eastern end of Northrop Field. J. E. Brown, electronics leadman, examines target calibrations. Equipment in the airplane enables pilot to seek out an enemy in darkest night or foggiest weather. Electronic equipment then "locks on" and follows any evasive action until the "kill" is made.

ANOTHER NORTHROP FIRST is a target winch installation allowing targets to be towed in practice firings faster than they have ever been flown before. This allows closer relationship to combat firing conditions and sharpens "shooting eye" of pilots. From left, Bill Juno, AiResearch; Jim Bellit, Wright-Patterson AFB; Bill Higbee, Experimental Flight engineer; Dave Selegue, supervisor, Instrumentation . . .

SPIC 'N SPAN housekeeping is not only big assist to overall production efficiency at Northrop, but is real morale builder to hard-working plant population. Bill Loitz and Fred Volz of Anaheim Division are here seen sparkling up general offices area. Bill and Fred, night folk, give plant "good morning" sparkle for next shift.

NORTHROP IS LIKE A CITY

Variety of Activities

FORTHRIGHT ANSWER—. Northrop Vice-president John W. Myers answers questions from Northrop Management Club members during traditional question and answer session. Highlight of club meetings, Q & A sessions are conducted by members of top management rotating from month to month. Management Club serves to bring members up-to-date on plans, developments and accomplishments throughout all Northrop plants. (See story this page.)

MEALTIME COMBAT—. Norcrafter chess players Bob Grafton, with pipe; Hardy Jones, kibitzing; and Mel Mohler, munching sandwich, engage in tense game during lunch hour at Edwards AF Base facility. Meal time recreation is encouraged in all Northrop facilities through provision by the NRC of ping pong, horseshoe, chess, checker, volleyball, badminton, and other equipment for lunch hour use of all.

CAPACITY TURNOUT—. Northrop Recreation Club members fill NRC Clubhouse to overflowing at annual NRC Management party held on April 24, 1954. NRC activities include cultural, educational, social, and athletic programs. High participation by Norcrafters in more than 50 individual clubs gives NRC recreation program important part in Northrop way of life. (Details related in story, right.)

Supervisors Make M-C Idea Mart

Northrop Aircraft — 24,000 persons—is in many ways comparable to a city of the same size—with similar benefits, similar rewards, and with similar responsibilities found in any well adjusted society.

American cities, wherever, have their civic and social organizations dedicated to constructive community purposes — Rotary, Optimists, Lions, and many others.

The Northrop Management Club and the Northrop Recreation Club help serve this basic need of human beings to get together, share interests, exchange ideas, and cultivate friendships.

Membership in the Northrop Management Club, as the name implies, represents plant management and supervision.

Club object, declared by constitution and by-laws, states that the organization is ". . . founded for the purpose of promoting the spirit of good fellowship and cooperation among the supervision of Northrop Aircraft, Inc., and for the further purpose of educational discussions and lectures in the field of industrial supervision".

The belief of the Club is that better supervision is derived through a broader knowledge of the interests and activities of the people around them. Therefore, Management Club programs include such items as: sport nights, civic and citizenship type meetings, lectures on world events, scientific and technological meetings, and tours of industries and places of interest that give the participants an insight into the operation and functions of neighboring industries.

Top highlight of all group meetings held bi-monthly at all facilities is the traditional question and answer session conducted by members of Northrop top management rotating from month to month. Membership queries of great variety and scope are posed, and disposed of with forthright answers.

Club affairs are administered by a board of control of elected and appointive officers.

Northrop Management Club members are very proud of their organization.

For Norcrafters It's NRC With Recreation for All

The Northrop Recreation Club is an organization based on the fact that "Recreation is a Necessary Habit".

The recreation program at Northrop is conducted through the NRC, a non-profit organization run by and for Northrop personnel and their families. Club activities include cultural, educational, social, and athletic programs, and sponsorship of local scouting groups — Boy Scouts, Sea Scouts, Brownies, Mariners, and Girl Scouts.

Direction of the organization is in the hands of the personnel. Each individual club has an elected or appointive commissioner and the NRC holds an annual election in which all officers vote to elect a president, vice-president, secretary, treasurer, and sergeant-at-arms.

The club leases the NRC clubhouse at 175 North Hawthorne Boulevard, Hawthorne, California, for the use of members, their friends, and families.

This building provides a meeting place for the more than fifty

VARIED APPEAL

clubs which make up the NRC.

In addition to the traditional sporting activities such as softball, bowling, basketball, and fishing, the NRC includes a variety of clubs designed to appeal to all tastes. Among them are organizations like the Art Club, Camera Clubs, Square Dancing, and dozens of others. For lady Norcrafters and the wives of Norcrafters there are also varied organizations directed to meet distaff requirements in recreation. Some of these—like the Knitting and Interior Decorating clubs—have a utilitarian, as well as leisure-time, value.

Several of the NRC clubs have been the first ever organized in industrial plants under a formal recreation program. For example, the Sports Car Club, which now has over 100 members, was the first club of its kind in an industrial plant in the United States. Similar clubs are now springing up all over the country.

The NRC Boat Club is the only known boat club in the airframe industry and in successfully merging sailboat sailors with powerboat men, it is a good example of the ability of Norcrafters to work in harmony.

As Norcrafters become interested in new hobbies, new clubs are formed. In the past year alone the NRC roster has seen the addition of such clubs as: the Gem and Mineral Club—which includes all phases of prospecting, rock hunting, and lapidary work; the Radio Club—designed for all interested in ham radio operation or phases of electronic work; the Players' Group—for those with an inclination toward the thespian arts; and the Ladies' Ballet classes—

COMMON INTERESTS

popular merger of exercise and art.

Almost as soon as Northrop became a grown-up company, Norcrafters began to establish groups with common recreational interests. These clubs drew plant-wide enthusiasm, and such activities as the Northrop Softball tournaments drew widespread participation, both in players and spectators.

As the Company expanded, interests expanded and these many clubs set out together under a mutual banner — the Northrop Recreation Club—with a mutual motto — Recreation is a Necessary Habit.

As new outlying Northrop facilities were added and as soon as suitable quarters could be established, clubs were organized and commissioners were elected. Thus, as facilities like Anaheim, Ontario, Palmdale, Edwards, and Florida became part of the

CIVIC WORK

Northrop organization, the NRC added to its growing "family".

Many of the clubs combine their recreational activities with civic work. The Women's Dinner Club, for example, is well-known in the community for its parties for orphans; the Radio Club is playing a part in the local Civil Defense picture; and the Choral Group has given much pleasure to patients in hospitals and institutions with its songs.

Dedicated to the ideal of promoting friendliness and a spirit of teamwork among Norcrafters, the Northrop Recreation Club plays a vital part in the Northrop way of life.

P R O D U C T S

S C O R P I O N F - 8 9 D

the high-speed performance of the airplane and insure return of the airplane to its home base. Practice alerts have shown that the Scorpion can intercept a "Bogie", or enemy airplane, in the following time sequence:

An invader is reported from a ground station approximately 200 miles away from target at an altitude of 40,000 feet, going 530 miles per hour—which means it will arrive over target in twenty-two and a half minutes.

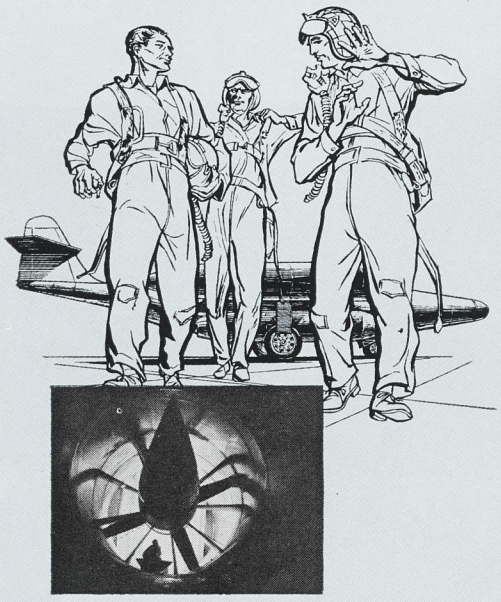
Although some of these important minutes would be used in the "scramble" to man the readied airplane, and several more would be needed for take-off and climb to the enemy's altitude, ample time would remain in which to search out and destroy the interloper.

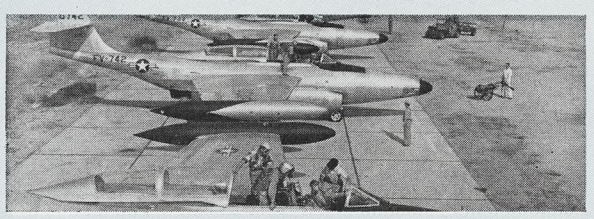
Present F-89 armament is capable of shooting down any bomber in the world in a single pass, since its field of fire is approximately the size of a football gridiron at optimum firing range.

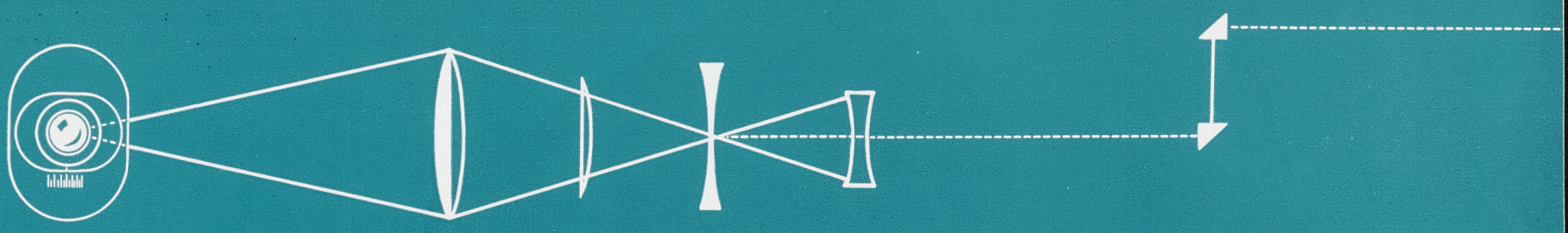
The airplane can attack from any angle, a feature which eliminates the need for complicated maneuvers before going in for the kill.

One of the main tenets of good design as practiced at Northrop is emphasis on the prime purpose of the airplane —to fly swiftly to the attack, to pack the greatest possible lethal punch—and to return safely to its home base.

The mechanical and electronic functions of the airplane used in the performance of the above—so simply stated—are myriad. That the Scorpion is able to perform in this manner is a tribute to the engineering skill, manufacturing know-how, and over-all teamwork of the entire Northrop organization.







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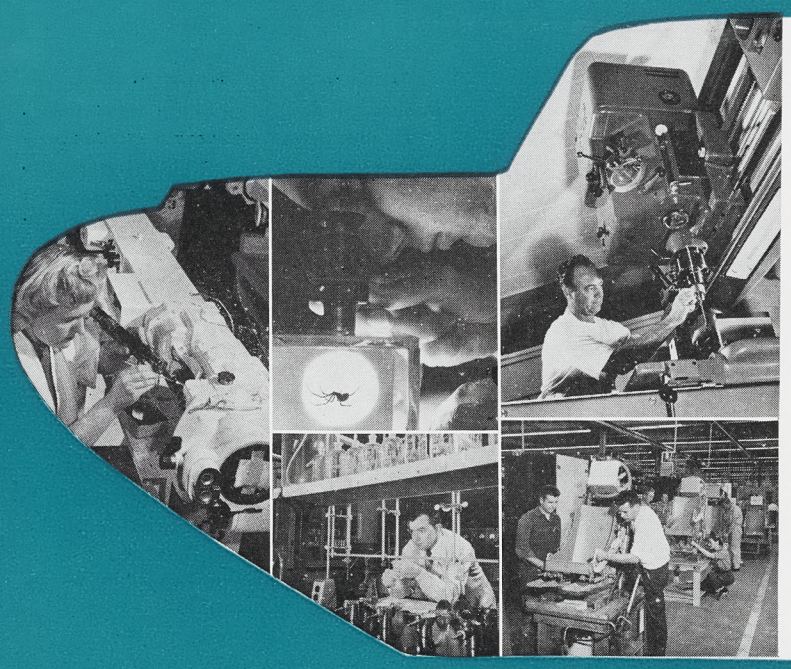
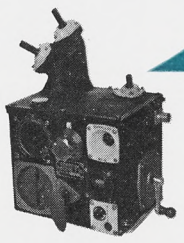
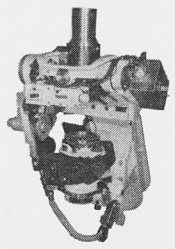
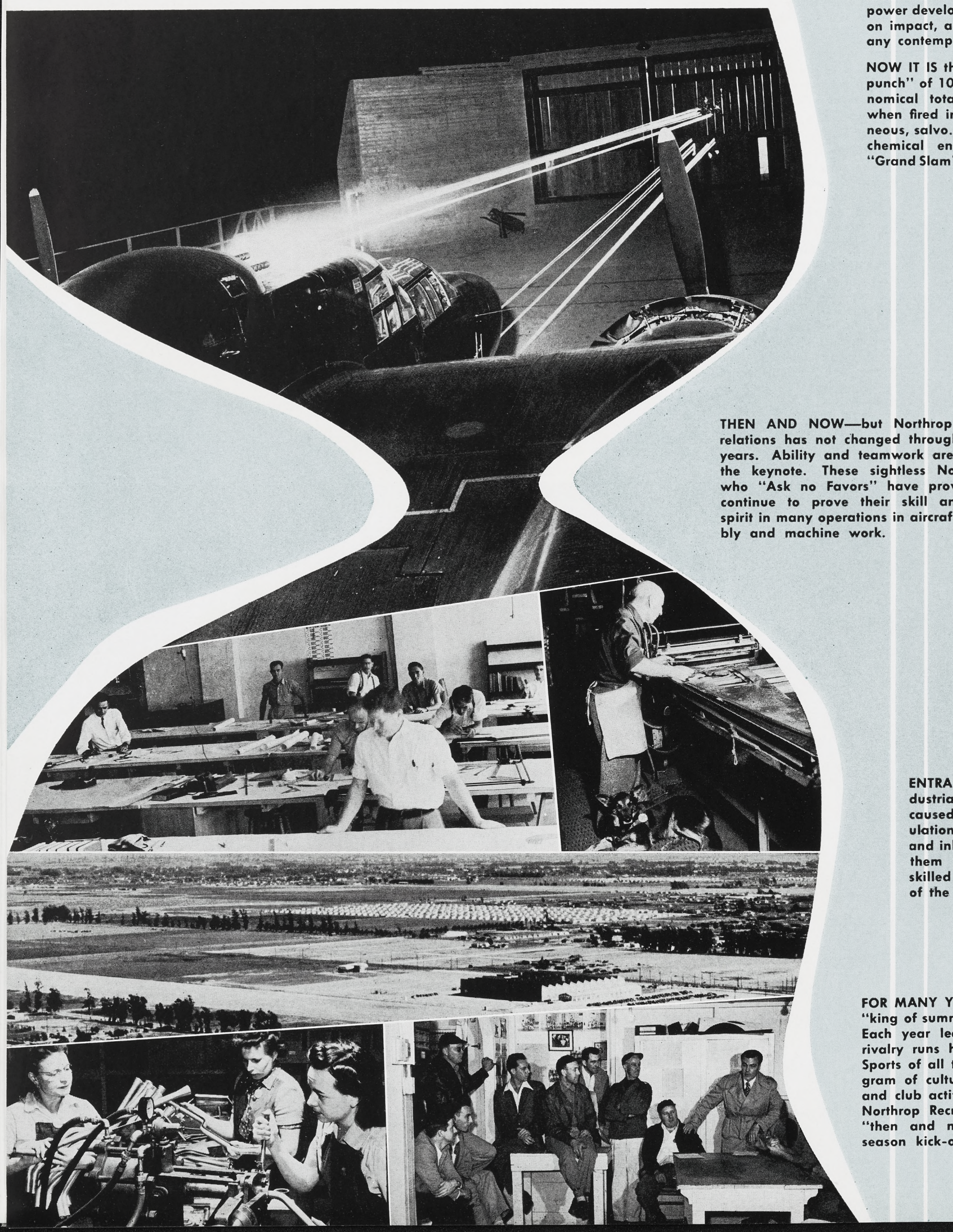






In the highly precise opto-mechanical devices field, Northrop's Anaheim plant—spanking clean, modern — manufactures for Ordnance Corps and other armed services such fire control instruments as the two pictured left. Shown at top is the T-30 ballistics computer which is used in conjunction with the T-4 range-finder in the Patton M48 tank. Below is the T-179 telescopic mount for the 105mm howitzer. Millionth-of-an-inch tolerances are not unusual at Anaheim. Missile work is underway. A facilities contract for Navy rocket production has been announced. F-89D Scorpion ejection seats are manufactured for the Air Force. The facility has earned, besides a reputation for quality workmanship in quantity production, excellent standing with regard to its imaginative initiative in research and design development work.

THEN . . .



THEN IT WAS the famed Black Widow, first airplane built exclusively for night-fighting and last of the great propeller-powered fighters—forerunner of present Scorpion. Its radar eyes, which found enemies in the dark, have been refined into elaborate and uncanny search and aiming equipment in today's F-89 airplane. Four 50-caliber machine guns and four 20-millimeter cannon armed the "Widow". When all eight were fired in a three-second burst the striking power developed was six million pounds on impact, a wallop capable of wiping any contemporary enemy from the sky.

NOW IT IS the Scorpion whose "Sunday punch" of 104 rockets reaches the astronomical total of 187,200,000 pounds when fired in a single, nearly instantaneous, salvo. This figure does not include chemical energy from the Scorpion's "Grand Slam" explosive rocket warheads.

THEN AND NOW—but Northrop human relations has not changed throughout the years. Ability and teamwork are always the keynote. These sightless Norcrafters who "Ask no Favors" have proved and continue to prove their skill and team spirit in many operations in aircraft assembly and machine work.

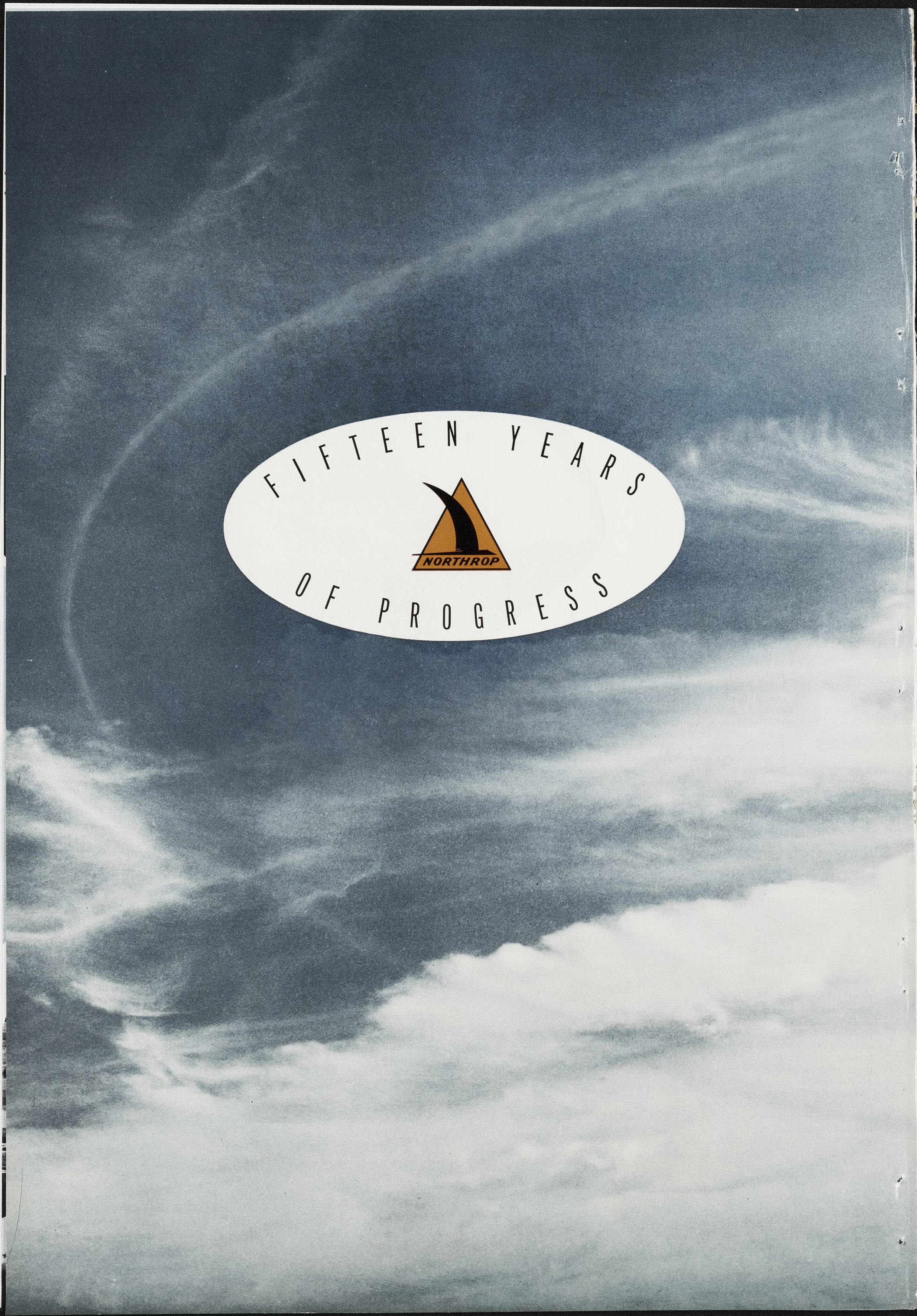
ENTRANCE OF WOMEN into industrial fields in early war years caused much comment and speculation. Today, training programs and inherent ability have enabled them to hold more and more skilled jobs as an integral part of the Northrop production team.

FOR MANY YEARS Softball has been "king of summer sports" at Northrop. Each year leagues are formed and rivalry runs high among the teams. Sports of all types and a broad program of cultural, educational, social and club activities are sponsored by Northrop Recreation Club. Note the "then and now" contrast between season kick-off managers meetings.

NOW...

A HANDFUL OF ENGINEERS manned the drafting boards in historic Hawthorne Hotel where Northrop made its beginnings. In contrast, today's vast array of drafting tables in Plant Three shows development of Engineering division through the years. Only a small portion of Norcrafters working in the division appear in picture at right. Division's personnel roster of technicians and engineers in all Northrop facilities today has risen to twenty-nine hundred—more than three hundred and sixty-two times the original group on opposite page.

BEAN CROPS and cabbages flourished around Northrop Field in earlier days when Hawthorne plant was first erected. Few dwellings were available near the factory. Aerial views on opposite page and at right show growth of Hawthorne facilities, and of housing development, during the relatively short fifteen-year period since ground was broken for the original building.


FIFTEEN YEARS
NORTHROP
OF PROGRESS

Northrop News

Issued Every Two Weeks at Northrop Field, Hawthorne, California — Wednesday, July 28, 1954

Northrop Song Hit
(See Page 3)
Open House Pictures
(See Page 4-5)

INITIAL PALMDALE SCORPIONS TO AF

TWO DELIVERED ON SAME DATE

Twin delivery of the first two airplanes to be flown away from Northrop-Palmdale facility made July 13 a red letter and busy day at the Antelope Valley base.

First airplane to go was the F-89 D Scorpion piloted by Lieutenant Colonel Julian Crow, of the 497th Fighter Interceptor Squadron, who delivered it to Western Air Defense Force Headquarters at Hamilton Air Force Base.

This airplane and one delivered by Captain Raoul C. Ramos, of Crow's command, filled the present quota of Scorpions scheduled for delivery to Hamilton.

An interesting facet of the first airplane delivery was pointed out when records revealed that Lieutenant Colonel Crow had also delivered the first F-89 to be received by his squadron from Ontario last spring (see "Portland Skywatch" picture in Northrop News Armed Forces Day spread, 5 May 1954.)

The ceremony of the first Palmdale delivery was witnessed by a number of visitors, plus the base Norcrafters. Among the viewers were Major Robert Green, Air Force Officer in Charge, Palmdale Air Base; Al Study, secretary, Palmdale Chamber of Commerce; B. P. Glenn, secretary, Lancaster Chamber of Commerce; Kenneth P. Bowen, vice-president in charge of Manufacturing; Lieutenant Colonel Charles Tennant, Air Force Plant Representative, Hawthorne; Major Thomas Swain, Headquarters, Air Materiel Command, Dayton, Ohio; and Thomas McCracken, Northrop-Palmdale base administrator.

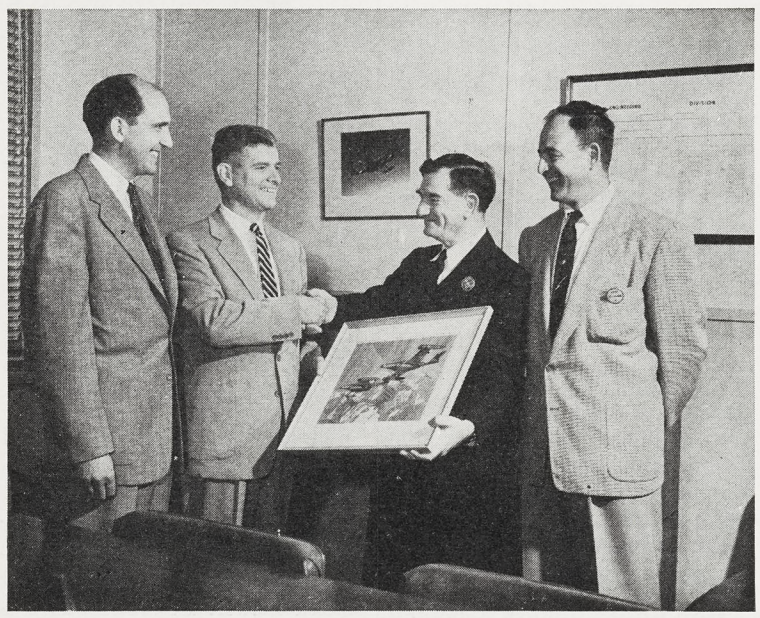
Since the twin deliveries at least one other Scorpion has been delivered—one which was flown to the 4750th Training Wing (Air Defense Command) at Yuma, Arizona, by Captain Wilson Rolfe of that command.

At present many more F-89D airplanes are being processed at the desert base, where operational activity has been on a steady upsurge, with new personnel being added.

Two hundred Norcrafter transferees from Ontario were assimilated in the Palmdade facility on Monday, July 19, an operation which went forward smoothly due to advance planning by various departments of the facilities.

The delivery and present efficiency of the Palmdale plant are a tribute to Northrop planners and the Norcrafters of the facility, who have brought the base upward from a bare building to its present working force of nearly 800 people since the first man (flight line mechanic F. A. Luqueer, jr.) clocked in on March 1—only five months ago.

Ross Wins New Award For Engineering Referral



FIRST to receive an award in current Engineering Referral Award Plan was Morwick "Moke" Ross, executive assistant to Vice-president John R. Alison, shown taking the framed painting from Edgar Schmued, vice-president, Engineering. Referree was Johannes Newton, Boundary Layer Control, left. Bob Ehinger, Engineering personnel manager, at right.

Highlight of the present hiring program of the Engineering division for all Norcrafters is the referral award plan, wherein any Norcrafter may win a tastefully framed and colored reproduction of F-89D airplanes upon successful referral of a friend to Engineering Employment.

Increased tempo of Northrop design schedules has brought about a critical need for many engineering skills, it is revealed by Bob Ehinger, Engineering, personnel manager.

The award is a reproduction of a painting made by Northrop ace illustrator Jack Leynnwood, whose work is noted for its clarity of detail and almost photographic quality.

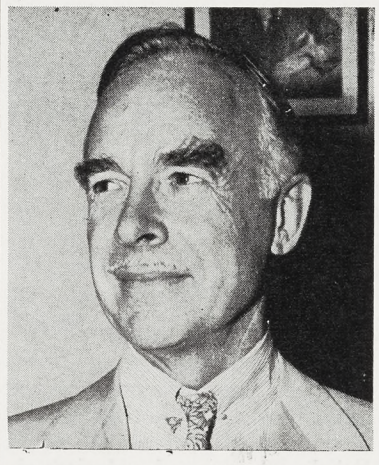
Any Norcrafter may make a referral by using handy cards posted in all Northrop lobbies and Personnel offices.

Present needs are for following classifications: Aerodynamicists A and B; Aerodynamics Engineer A; Construction Engineer A; Design Specialist A; Development Liaison Engineer A; Dynamicists A and B; Dynamics Engineer; Electrical Engineer A; Engineering Designer A and B; Engineering Drawings Checker A; Engineering Liaison Man A; Flight Test Analyst A; Flight Test Engineer A; Industrial Engineer A; Methods Analyst A; Preliminary Design Engineer A; Production Design Engineer A and B; Research Engineer A; Research Lab Analyst A; Statistical Analyst A; Stress Analyst A; Structures Engineer A; Tabulating Analyst A; Thermodynamicist A; Thermodynamics Engineer A; Weight Control Engineer A; Wind Tunnel Engineer A; Tool Research Analyst A; and Tool Engineer A.

McDuffie— Chairman of The Board

Whitley C. Collins, president and chief executive officer of Northrop Aircraft Inc., has announced the election of William C. McDuffie as chairman of the board.

McDuffie, a member of the Northrop board since 1943, was



WILLIAM C. McDUFFIE

elected at the regular meeting of directors on June 29, 1954.

A resident of Santa Barbara, McDuffie is also chairman of the board of the Wilmington Gasoline Company, and chairman of the board of the Mohawk Petroleum Corporation.

His election fills a vacancy which occurred in the board chairmanship at the death of General Echols in May. The board elected Collins president and chief executive officer of Northrop on May 17, but left the chairmanship vacant until the June 29 meeting.

Safety "Award of Honor" Presented to Norcrafters

The National Safety Council has honored Northrop with an Award of Honor, highest recognition obtainable for outstanding safety record, for the year 1953.

The word was received from Ned Dearborn, NSC president, late last month by Lee Johnson, chief safety engineer at Northrop. First notice was followed by a fine plaque, material testimonial to the fine safety performance racked up by Norcrafters.

The statistics which accompanied notice of the award indicate that Northrop is one of only five aircraft manufacturing firms in the country to receive the coveted honor. Forty-two companies' safety performances were evaluated.

The facts further stated that Norcrafters had bettered their "par" rate (based on past performance of the company and past average for the industry as a whole) by 55 per cent in the frequency category and by 90 per cent in the severity classification.

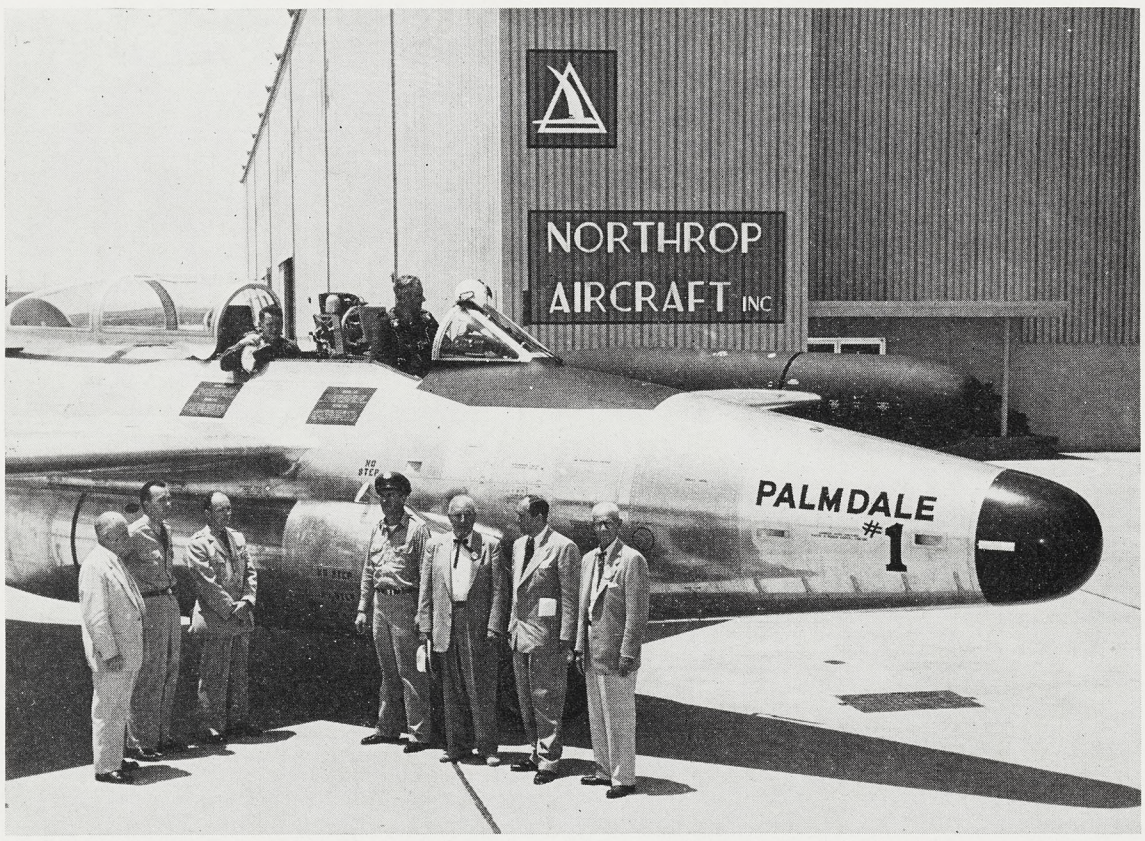
Plant personnel have been spearheaded in their drive to this national recognition by members of the Safety-Conservation committees, which comprise the "grass roots" organization spreading the twin objectives of safety and material conservation into the shops and offices.

The award is the latest in a long line of safety performance tributes won by Norcrafters. The NSC presented the Company with top distinction in 1952, and followed that award with a special award of honor for outstanding improvement. Northrop drivers contributed to the impressive records also, winning first place in the Fleet Safety competition for 1952-53.

SAFETY AWARD was presented to President Whitley C. Collins recently by W. F. Brown, current president of American Society of Safety Engineers. Attending presentation, from left: Lee Johnson, safety engineer; J. B. Johnson, secretary and managing director, ASSE; Collins and Brown; Joseph Kaplan, secretary and manager, Greater Los Angeles Chapter of the National Safety Council, sponsors of the award, and John B. Clark, Northrop Industrial Relations director.

Northrop Safety Recognition

Palmdale Scorpion Number One



WITNESSING DELIVERY of first Scorpion delivered from Palmdale facility recently were, from left: Tom Mc Cracken, Northrop-Palmdale base administrator; Lieutenant Colonel Charles Tennant, Air Force Plant Representative; Major Thomas Swain, Headquarters, Air Materiel Command, Dayton, Ohio; Major Robert Green, Air Force Officer in Charge, Palmdale Air Base; B. P. Glenn, secretary, Lancaster Chamber of Commerce; Kenneth Bowen, vice-president, Manufacturing; and Al Study, secretary, Palmdale C of C. Pilot—Lieutenant Colonel Julian Crow; RO—Lieutenant Jerry Powell. (See story, Page 1.)

News Closes Out Another Volume—No. 12
Year's Pages Reflect Progress

When, in the parlance of printers, this issue of the Northrop News was "put to bed", another chapter in the life of the paper—and of the Company—closed.

The end of the chapter is marked simply—by changing the Volume number in masthead below . . . This time it reads "Vol. 12, No. 26" . . . and when it next appears, it will say "Vol. 13, No. 1".

The year was a vibrant one, and the recounting of only a handful of the myriad activities reflects the vigor that is Northrop Aircraft, Inc. . . . and Norcrafters.

There was Suggestion Number 10,000 . . . and the incredibly smooth transportation of airplanes to and from Ontario . . . the revelation of the Sunday punch of the F-89D Scorpion . . . the non-stop flight of the airplane to Dayton . . . and national safety awards.

BBSF classified ads made their debut during the year . . . the NRC staged its biggest event in December with an all-Northrop Ball at the Palladium . . . Scorpions and their AF pilots tore targets to shreds in gunnery runs . . . and Palmdale, fabulous jet center, opened with a flourish . . .

Production of F-89s went over to the fixed-price type of contract . . . and not long ago Whitley C. Collins became president of the company following the sudden death of General Oliver P. Echols. The year closed, fittingly enough, with the bang-up fifteenth anniversary Open House, with thousands — including the first 15-year Norcrafters—in attendance.

The volume shines throughout with the teamwork and cooperative spirit of Norcrafters . . . just as previous volumes have reflected the bright and warming achievements of the men and women of Northrop.

Annual Conclave of Writers

WHEN NATIONAL Aviation Writers Association met in Miami recently, Northrop was represented by Al Cline, center, director of Public Relations, and Don Flamm, Public Relations department (not shown). One of groups photographed showed, from left: Lieutenant Colonel John Grant, electronics staff officer, 3205th Drone Group; Welman A. Shrader, director of publications for IAS; Cline; Major General William L. Richardson, commander, AFMTC, Patrick AFB; and Vern Haugland, Associated Press aviation editor.

Down Range . . . . . .

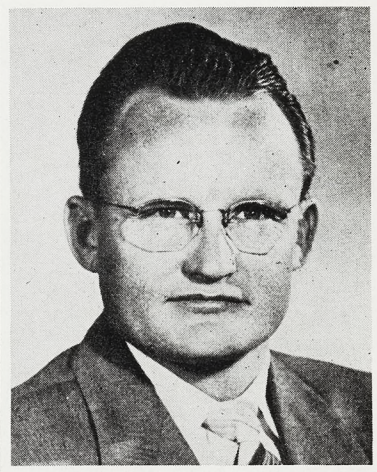
Two happy events made Edwards Norcrafter A. J. "Al" Word, jr., puff with pride recently . . . twin sons, Frankie and Larry, were born June 25 . . . followed by Lion's Club of Palmdale selection of his daughter Sheila, 16, as "Miss Lion's Club", an entry in the "Miss Palmdale" contest which will feature the desert city's Annual Roundup Days celebration in August.

Warning to "Rockhounds" using black light equipment at night is fact revealed recently by Lee Johnson, safety engineer, that rattlesnakes fluoresce as brilliantly as many ores . . . several cases have been reported where prospectors have been bitten in reaching for what they thought were rocks. . . .

Nominated as candidate for national presidency of Air Force Association: - Vice-president John R. Alison, member of the Santa Monica squadron, AFA . . . Election will take place at AFA national convention to be held in Omaha in August.

Bob Love, Military Relations, was one of only 15 National Guard pilots selected to fly in first annual Earl T. Ricks Memorial Trophy race last Saturday . . . Competitors were chosen from nominations made by Air Guard Wings in several states. . . . Trophy presentation is scheduled for Air Force Association (sponsoring organization of race) national convention next month. . . . Race was run from Ontario International Airport to Wayne Major Airport, Detroit.

Open House was California vacation sidelight for Florida visitors. . . . Norcrafter Jewel Van Horn, Materiel—MTF, and husband Larry, Patrick AFB . . . tour through plant was Jewel's first look at Hawthorne facility.



WALT PETERSON

Elected vice-chairman of the Los Angeles section, Institute of Radio Engineers:—Walt Peterson, supervisor, Radio-Radar Development, Engineering division . . . A Northrop Patent Award holder, Peterson was secretary of the Los Angeles 3000-member IRE chapter in '53-54, and is a senior member of the Institute . . .

Odd type casualties suffered during recent 15 year anniversary "Open House" were severe sunburns received by Dick Carroll and Larry Donoghue of Palmdale Industrial Relations—accustomed to desert sun they blistered badly during daylong exposure in Hawthorne . . . insist smog particles magnify sun's rays.

Lynwood—Maple Street

FIRST ANNUAL combined Lynwood-Maple Street Warehouse NRC dance will be held Saturday night, July 31, at Morningside American Legion hall. Dance committee members shown selling ducats to Bill Murray, Lynwood, are: Dan Donnelly, Susan Buchanan, Bill Landry, Scotty Smith, Ann Gaw, and Lee Hawthorne, from Lynwood; and Jerry Taylor, Maple St. Committee has extended invitation to all Norcrafters to attend; tickets are available all week.

Northrop News

Vol. 12 Northrop Field, Hawthorne, Calif. No. 26

Published every other Wednesday by
INDUSTRIAL RELATIONS DIVISION, NORTHROP AIRCRAFT, INC.
JOHN B. CLARK, Director

CHARLES BRADFORD, Editor
HARRY HERRANEN, Assistant Editor (Nights)

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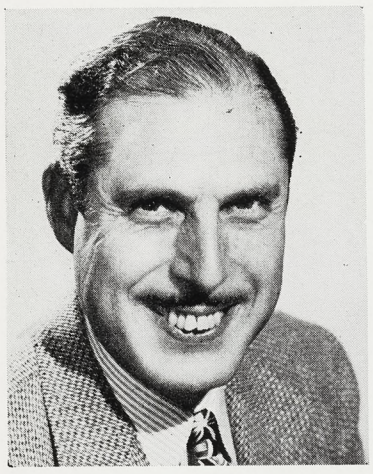
AIA, ASQC Positions to Bob Catlin, Inspection

Two significant honors have recently been bestowed on Bob Catlin, Northrop director of Quality Control.

He was recently elected chairman of the Aircraft Industries Association Inspection Committee for the entire western region of the United States.

Committee members are selected for this honorary position from among the many aircraft manufacturers of the western area.



ROBERT S. CATLIN

In addition, Catlin has been requested to act as moderator for one of the sessions of the Joint Western Region meeting of the American Society for Quality Control — Aircraft Technical Committee, which will convene August 9 and 10 in San Diego.

Bob Catlin has been employed at Northrop since October 2, 1939, and was one of the fourteen Norcrafters to receive the first 15-year pins, issued at the recent "Open House" commemorative celebration. In tenure he is Northrop's fifth eldest "Old timer".

AIRPLANE POWER PLANTS DISPLAY FEATURE AT IAS

Northrop is participating in one of the most comprehensive aviation exhibits ever organized, with two displays at an air power show now being held (July 24-August 3) at the Institute of Aeronautical Sciences, 7660 Beverly Boulevard.

The wind tunnel model of the F-89D Scorpion is on display; the second exhibit includes a small radio-controlled target plane with radio controller, and a small target plane engine—the latter from Radioplane Company.

Entitled "Air Power for the Next Ten Years", the overall presentation has been prepared by the Curtiss-Wright Corporation to highlight trends in aircraft power.

The exhibit is open each Saturday and Sunday from 10 a.m. to 10 p.m., and on weekdays from 1 p.m. to 10 p.m. There is no admission charge.

Unusual Program Planned For Management Club

Plans have been completed for the regular bimonthly Management Club dinner meeting, which will be held August 6 at Rodger Young Auditorium, according to Jack Akin, president of the club.

The August meeting will feature a question and answer period to be monitored by George Gore, corporation counsel. Written questions will be answered during this part of the program.

Entertainment of an unusual sort will be afforded members who attend. John Calvert and his attractive blonde assistant, Miss Ann Cornell, will offer a program which entails audience participation.

Program begins with cocktails at six p.m., and dinner will be served at seven, with a choice of prime ribs or seafood being offered.

President Akin urges all members to attend this meeting, which promises to be one of the most "sprightly" of the current season.

Door prizes offered will be in the household appliance category; an excellent selection of these items has been obtained.

NRC SONG HIT composer Chanslor listens beamingly to Pied Piper rendition of "Lend Your Leisure" at the booth set up for Open House distribution of the sheet music. Handing out copies at right is Dorothy Hodgson, women's activities coordinator for Personnel Activities and Services, where new high-quality, low-cost records of song can be obtained. PA&S reps at outlying facilities also have record for sale.

NORTHROP SONG HIT

OPEN HOUSE DEBUT FOR NRC TUNE

NORTHROP SONG HIT, "Lend Your Leisure to Your NRC", received a top send-off at Open House on a Capitol recording made by nationally-famed Pied Pipers. Composed by Anaheim Norcrafter Hal Chanslor—and orchestrated by Hal Thomas, Experimental Design, for musical accompaniment by his Californians, Trend recording artists, song was surprise hit on July 10. In photo two Hals—Thomas and Chanslor—are in foreground; Pied Pipers look over lyrics. They are, from left: Lee Gotch, Jana Eklund, Clark Yocum, and Al Davies. Recording is now available from PA&S offices, representatives.

The lively pulse of the Northrop Recreation Club—with its varied activities appealing to every taste—has been set to words and music.

And the thousands of Open House visitors who heard Anaheim Norcrafter Hal Chanslor's catchy tune—"Lend Your Leisure to Your NRC"—pronounced it a hit when they heard it for the first time on a Pied Pipers Capitol recording on the occasion of the company's fifteenth anniversary.

Sheet music copies, colorfully illustrated to reflect the far-flung activities of the NRC, were distributed free for the asking at a special booth, and additional copies by the hundreds have been distributed since Open House at PA&S offices.

The instant success of the song hit has prompted PA&S to stock a large number of the Pied Piper recording of the number for sale to Norcrafters. The discs are available now at 25 cents each from PA&S offices or representatives in all facilities.

The adoption of "Lend Your Leisure to Your NRC" as the theme song of the recreation program marks another "first" for Northrop, already known far and wide for enlightened human relations and recreational programs, as well as for its products.

The Pied Pipers, who are currently top favorites in the musical world, sang the Northrop song to the orchestral accompaniment of the Californians, Trend recording musical aggregation headed by Hal Thomas, Experimental Design Norcrafter, formerly of Anaheim. Thomas orchestrated the selection for the recording.

Chanslor is known personally to thousands of Norcrafters. He currently heads Personnel Activities and Services operations at Anaheim, but he devotes much of his leisure time, too, to the conduct of social and recreational programs for Norcrafters.

Chanslor's musical background is a big-time one—which probably accounts for the fact that the "Lend Your Leisure . . ." piece was so well received by its listeners.

Hal began his musical career as a dance orchestra pianist, playing with such groups as Ben Pollack, Benny Goodman, Red Nichols, Gus Arnheim, and, briefly, with Paul Whiteman.

Later he organized his own orchestra and played the "Society Club Circuit" from Del Mar to Santa Barbara. During this period he acted as personal accompanist and orchestra director for Bing Crosby, Martha Raye, Mary Martin, Connie Boswell, Edgar Bergen and Charlie McCarthy, and others.

The lyrics of "Lend Your Leisure . . .", which are reprinted at left, promise to become well-known phrases around Northrop Field and other parts of the company as Norcrafters take home the slick recording.

LEND YOUR LEISURE TO YOUR NRC

Lend your leisure hours to your NRC
Get the recreation habit
No tension you can mention
Will cause you apprehension
If you find your fav'rite fun and grab it.
When the Whistle blows
You're on your own
Join the happy crowd, don't sit there sighin',
Everybody knows it's not smart to be alone
When there's a way to cure the blues without half tryin'.

So, lend your leisure hours to your NRC
Live it up and laugh today, right now!
Live it up and learn to play . . . .

Maybe you'd like to Bowl or Swim
Or make your figure Slim 'n' Trim
Or play a little Golf with folks you know . . .
There's everything that you could wish
From Chess and Bridge to Tropical Fish
A Camera Club and Short Wave Radio . . .
There are no dues—the whole darn thing is free!
The NORTHROP RECREATION CLUB'S for you and me .
So,

Lend your leisure to your NRC,
Take advantage of your chances
You'll find a new sensation in full participation
In the sports and your department dances.
When your day is done you'll find delight
In the things we've planned for your enjoyment
Try them one by one ev'ry day and ev'ry night,
They're a very pleasant part of your employment.
So lend your leisure hours to your NRC
Live it up and learn to play—today!
Live it up—the Northrop way.

OPEN HOUSE ACTIVITIES

GREAT INTEREST in plant was evidenced by long lines of people who came early to Open House ceremonies, formed in queues to await their turn to advance through new lobby of Plant One, thence through shops on tour route to displays and Kiddie-Fair at end of route. It was estimated that over 22,000 people were guests of company on the occasion.

THOUSANDS AT ANNIVERSARY FETE

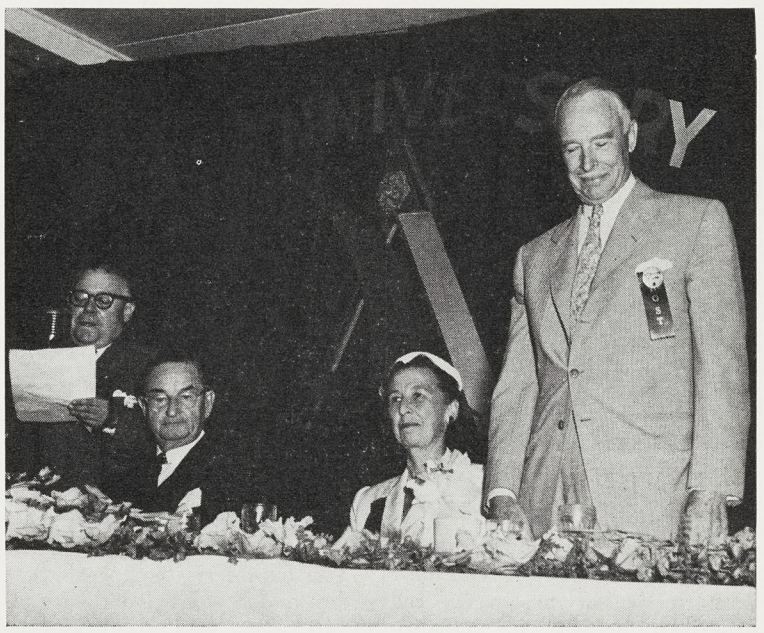
The thousands who thronged through the gates on the occasion of the fifteenth anniversary Open House on July 10 found displays, exhibits, and entertainment calculated to appeal to every member of the family.

Long before the gates were opened at 10 a.m., there were hundreds of Norcrafters, friends, relatives, and Hawthorne citizens waiting to get a glimpse of the inside. It was "Northrop Day" in the town, so deemed by official proclamation.

To the Norcrafters who had worked so hard to make the displays, clean the shops and offices, and who in many ways had helped to make the day a success, it was reward enough to see the thousands come through to view with interest the surroundings in which Norcrafters earn their daily bread.

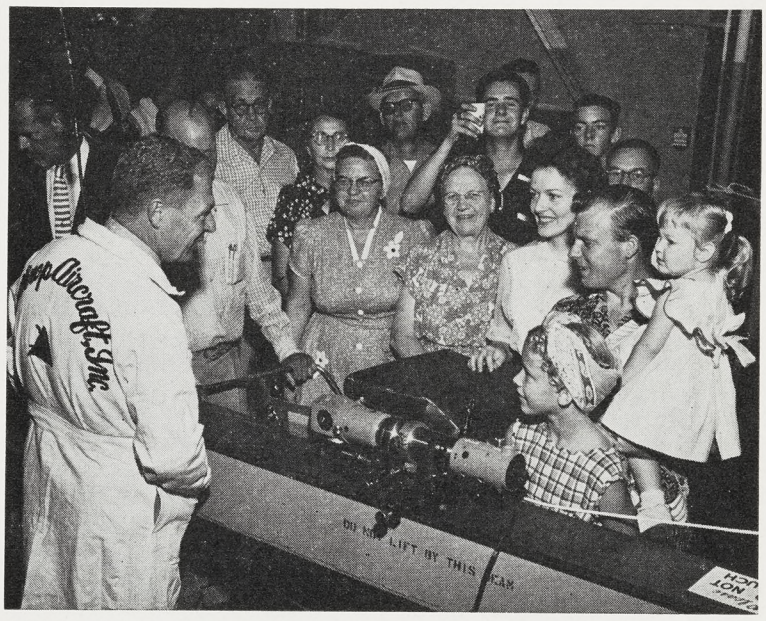
From the beginning ceremonies—when President Collins presented the first 15-year service pins ever awarded by Northrop—to the time when the gates closed on the last little youngster leaving the thrill of Kiddie-Fair, it was a Great Day.

The scenes on these two pages show only a part of the activity that made the day a full—and satisfying—one, and they serve as a reminder of the ceremonies that marked the company's fifteenth birthday.



BREAKFAST MEETING of company and city officials preceded tour of plant Saturday, July 10. Right, John B. Clark, director, Industrial Relations, introduces William C. McDuffie, newly-elected chairman of the board. President and Mrs. Whitley C. Collins are seated in center.

CHARMERS—. Among hosts and hostesses who greeted Open House guests at lobby entrance were the Norcrafters pictured. From left: Dorothy Poe, Factory Manager's office, nights; Nadeen Nevill, Manufacturing Operations Administration; Marge Walker, Manufacturing; Rocky Bender, Tool Fabrication; Claire Adams, Factory Manager's office, nights; Judy Kinney, Jig Construction.

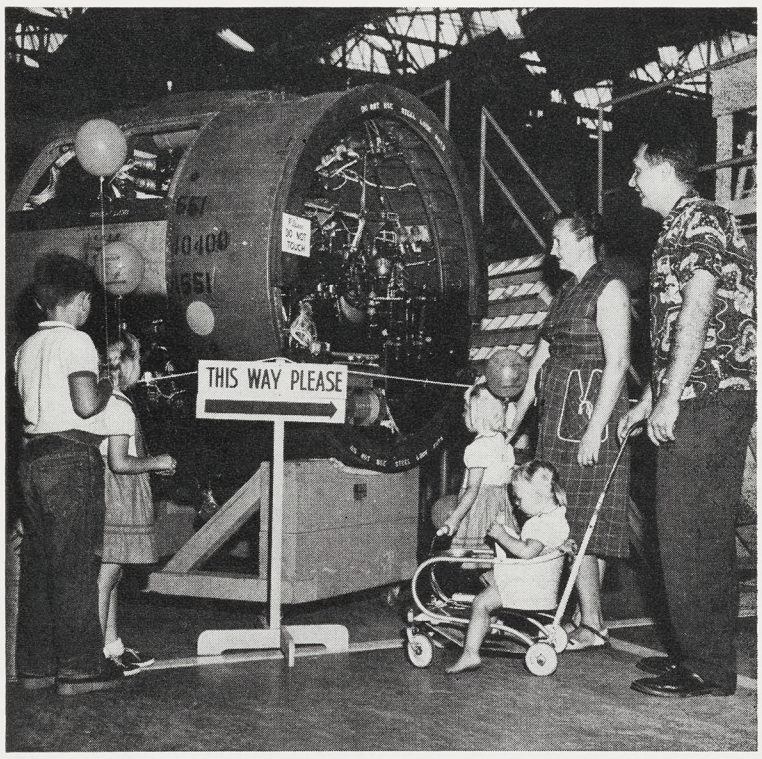


FOUR GENERATIONS of a Norcrafter's family visited Open House celebration. Being shown tooling display by Jim Milne, assistant foreman (7220), are Mr. and Mrs. Fred Schulke, grandfather and grandmother; Julia Schwartzrock, great grandmother; Jane Schulke (5508), on maternity leave; Don Schulke (5588), carrying daughter Sue Ellen; cousin Sandra Tully. Not seen in carriage was Judith Ann (2 weeks), youngest guest to visit plant on this occasion.

OPENING CEREMONY of the day at Northrop Open House was presentation of 15 year pins to 14 Norcrafter old timers. Above, Tom Chittenden, who clocked in at Northrop on 20 August 1939, and who is company's oldest man in point of tenure, receives pin from Whitley Collins, president and chief executive. Mrs. Chittenden, left, and Mrs. Collins were interested spectators at presentation preceding breakfast in Plant One cafeteria.

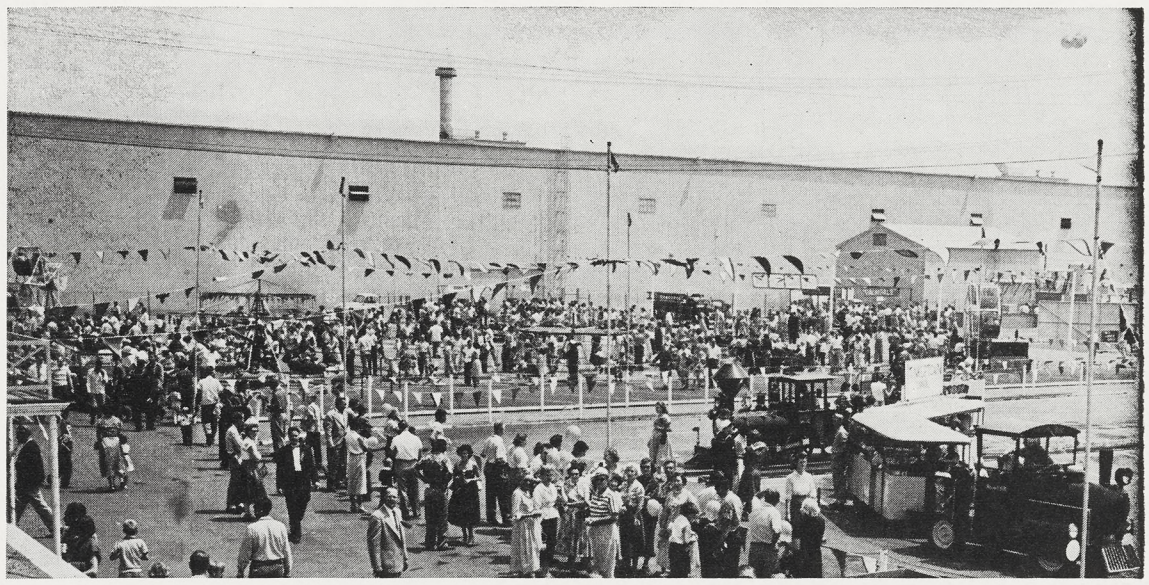
COMMEMORATIVE COINS stamped out in punch press department were a great drawing card during Open House celebration. Faye Gates (5165) aids operator Mildred Pansy in stamping coins, while Pat Caples and Audrey Collins, department clerks (5503), pass out shiny souvenirs to visitors.

VARIETY FOR EVERY TASTE



MANY NORCRAFTER families visited plant during Open House celebration. Above, John F. Bazyk, test engineer, and wife Nadine view nose section exhibit in assembly building. Children are, from left: Jack, Jill, Dede, and Karen (in stroller). Balloons carried by the youngsters were furnished by Northrop Recreation Club—enabled parents to keep an eye on small fry when they got too far ahead.

FREE MAILING of Northrop News special edition commemorating 15-year anniversary attracted thousands to News booth. Every state in the union and many foreign countries were listed in addresses handed Norcrafters manning the booth. Above: H. R. Del Rico, Armaments engineer, requests mailing to Cuban address while "Dusty" Rhodes, USAF Quality Control, aids News staff members in serving throngs.

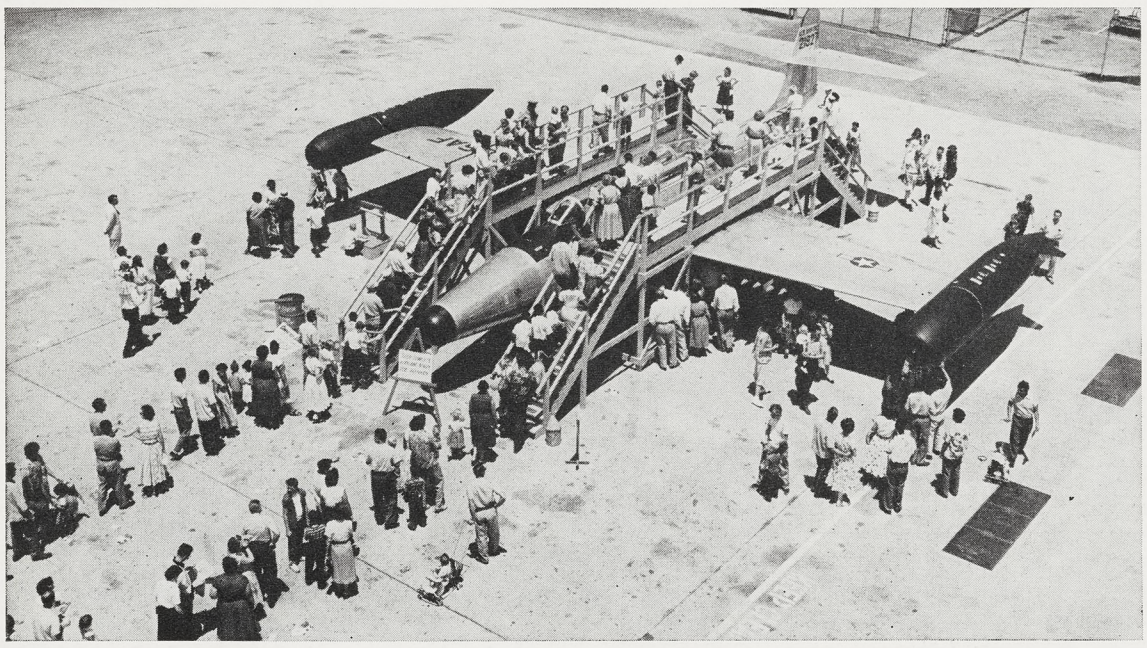


FOCAL point of Open House tour for kids—and the part of day's festivities they will most likely remember—was Kiddie-Fair area, where they enjoyed free rides, free refreshments, courtesy of NRC.

LOST—. Despite friendly attention from Plant Protection officers Sergeant Harry Warner, Clifford Prentice, Lieutenant William Thornton, and Willard Waddell, one small boy, identified only as "Ronnie", waits wistfully for parents to find him among Open House crowds. Ten children were "turned in" to Lost and Found booth during day. Ronnie was sixth.

OLD Home Week—. Former Florida Norcrafters Dick Carroll, Palmdale Industrial Relations head, and Jay Sedberry, Palmdale Industrial Relations, greet visitors from Northrop's Florida facility at Palmdale booth during Open House festivities. Pictured, left to right: Howard Hauser, John Keyes, Frank Berger, all of MTF-Cocoa, Florida; Dick and Jay; and Lloyd Simpson, Norcrafter from MTF-Cocoa.

TOO YOUNG to contribute, these small Open House visitors were nevertheless very interested in the story depicted by the Northrop Blood Bank Booth. Display pointed up fact that all Norcrafters and their immediate families, whether donors or not, are eligible for blood bank benefits free.



WALK-OVER AIRPLANE just beyond east doors of final assembly building was first display on outside of buildings. Most visitors took advantage of the ramp to get a look inside the cockpit of the Scorpion before going on to the exhibit booths to the south, where various divisions and facilities had arranged outstanding displays symbolic of their operations.

"Going My Way" forms are available from department clerks at all Northrop facilities, including Anaheim; Personnel Activities and Services, Personnel department, Industrial Relations offices, lobbies, and Northrop News Office.

Deadline is Thursday before publication.

"GMW" ads are run for one time only. If you wish the ad repeated, please fill out another form and forward to the News Office.

RIDES OFFERED

7:00 a.m. — 3:45 p.m.

(Zone 1)

VENICE & VERMONT, Los Angeles. W. A. HUTT (5503-16, Ext. 2417). RE. 6318. (12-1)

SANTA BARBARA & ARLINGTON, Los Angeles. Route: Arlington, Slauson, Crenshaw, Manchester to Prairie. ARTHUR MORTENSON (5354-60, Ext. 561), AX. 3-3031. (12-1)

SLAUSON & 2ND AVE., Los Angeles. EDWIN P. JOHNSON (6382-22, Ext. 723), AX. 2-2614. 12-1

OLYMPIC & VERMONT AVE., Los Angeles. CHARLES CARRON (5373-184, Ext. 791), DUnkirk 2-9480. 12-1

(Zone 2)

SLAUSON & 2ND AVE, Los Angeles. FRANK F. LUCAS (6457-33, Ext. 478), AX. 3-7030. (12-2)

WESTERN & MANCHESTER, Los Angeles. Normandie or Western to Imperial. PAULINE HART (5622-23, Ext. 2133,2478). PL. 2-3052. (12-2)

SLAUSON & VERMONT, Los Angeles. R. D. FRESHOUR (5534-112, Ext. 2421). (12-2)

WASHINGTON & LOS ROBLES, Pasadena. Interested in car pool. ELGIN C. MASON (5411-71, Ext. 2186).SY. 4-0105. 12-2

(Zone 5)

ROSECRANS & FIRESTONE BLVD., Norwalk. (Interested in car pool primarily—anywhere along Rosecrans Ave in Norwalk.) CALVIN R. COOPER (7510-63, Ext. 1609). TOrrey 4-5350. 12-5

DEL AMO & PARAMOUNT or Downey, Lakewood. (Interested in car pool.) AL COTKIN (5587-399, Ext. 1947). L.B. 394518. 12-5

CARSON & WOODRUFF, Lakewood. PAUL REPROGLE (7310-146, Ext. 2362), L.B. 39-8288. 12-5

SPRING & BELLFLOWER, Long Beach. AL HERMON (5222-328, Ext. 1273), L. B. 39-8667. 12-5

ROSECRANS & ATLANTIC, Compton. B. F. CLARK (5510-27, Ext. 2221 and 2255). 12-5

(Zone 6)

REDONDO BEACH BLVD. & NORMANDIE, Gardena. CAROL GIDNEY (5338-21, Ext. 2611). 12-6

(Zone 7)

NORMANDIE & 187TH or VERMONT & 187TH, Gardena. MARGARET SPORER (5621-100, Ext. 1852). (12-7)

(Zone 8)

CARSON & WESTERN, Torrance. (Interested in car pool.) R. L. FRAIM (5373-91, Ext. 2495-2497). FA 81287. 12-8

PALOS VERDES BLVD. & SEPULVEDA, Torrance. H. G. WALTERS (5620-41, Ext. 1301). (12-8)

CRENSHAW & 171ST. (Interested in car pool), Torrance. MAX STERN (5501-331, Ext. 2200), MEnlo 4-6748. 12-8

(Zone 10)

AVIATION & MANHATTAN BEACH BLVD. (Will furnish car, gas, and oil, in exchange for someone who needs a ride, to drive my car to and from work so that I will have transportation, at present I am unable to drive), Redondo Beach. L. V. PROCTOR (4250-64, Ext. 593). 12-10

(Zone 14)

BURBANK & HOLLYWOOD WAY, Burbank. Via Barham Blvd., Highland & La Brea. H. D. ERLEBACH (5501-95, Ext. 2200), TH. 2-5774. (12-14)

VAN NUYS & CHASE, Pacoima. EMMA SAM (5354-16, Ext. 467. (12-14)

LA BREA & BEVERLY BLVD., Los Angeles. Interested in car pool. EDWARD J. NETZER (5620-112, Ext. 1265), WE. 3-6994. 12-14

WOODMAN & CHASE ST., Pacoima. Interested in car pool. M. FIGOFF (5587-85, Ext. 1947), EM. 2-5541. 12-14

VINELAND & VENTURA. (Route: Freeway to Western Avenue, Santa Monica, Western or Crenshaw), North Hollywood. JIMMIE LUE FIELDS (5353-57, Ext. 2083), SUnset 2-2436. 12-14

7:30 a.m. — 4:15 p.m.

(Zone 1)

PICO & VERMONT, Los Angeles. J. ANDERSON (7510-59, Ext. 2660 or 2418). 13-1

RIDES OFFERED

7:30 a.m. — 4:15 p.m.

(Zone 1)

VERMONT & 3RD, Los Angeles (4). KIRK IRWIN (3510-500, Ext. 2258). DUnkirk 2-8965. 13-1

(Zone 2)

ALLEN AVE. & COLORADO, Pasadena. R. F. MEAD (3460, Ext. 1671), SY. 2-6578. 13-2

(Zone 4)

PARAMOUNT & IMPERIAL, Downey. (Interested in car pool.) SEEFELD (3257-343, Ext. 2357). TO 9-7564. 13-4

(Zone 5)

ATLANTIC & ROSECRANS, Compton. (Interested in car pool.) ED OHM (3460-826, Ext. 2471). NE 5-1989. 13-5

SPRING & PALO VERDE or STUDEBAKER, Long Beach. L. T. DAVIS (3353-40, Ext. 2378, 1783), L. B. 39-2734. 13-5

ROSECRANS & STUDEBAKER RD., Norwalk. FLOYD STRONG (9350-54, Ext. 2739). 13-5

(Zone 6)

BUDLONG & 158TH, Gardena. (Car pool desired.) JIM HAINE (3315-13, Ext. 2564). ME 9-6032. 13-6

(Zone 8)

GAFFEY & 28TH, San Pedro. Interested in car pool. MARILYN EDMONDSON (6630-20, Ext. 1787). TE. 3-2519. 13-8

CRENSHAW & 156TH STREET. (Need ride for one person), Gardena. RUTH EASTMAN (6110-117, Ext. 2534). 13-8

(Zone 9)

HAWTHORNE & PALOS VERDES DR. Palos Verdes. (Interested in car pool.) JOHN D. O'CONNOR (7500-20, Ext. 2623 or 2624). FR 5-6458. 13-9

ELENA AVE. & PALOS VERDES BLVD. (Hwy. 101 to Hawthorne, north to Broadway), Redondo. K. HARTMAN (5112-33, Ext. 4175). 13-9

(Zone 10)

HAWTHORNE BLVD. & RAMONA AVE., Hawthorne. EVELYN CARPENTER (1442-17, Ext. 2671). OSborne 6-6143. (13-10)

(Zone 11)

FELTON & 122ND, Hawthorne. MARY BULTMAN (9320-66, Ext. 1681), OS. 6-7717. 13-11

(Zone 12)

CENTURY BLVD. & CONDON, Inglewood. JOSE A. CHACON (3510-537, Ext. 1854), OR. 7-9773. (13-12)

LINCOLN BLVD. & WILSHIRE BLVD., Santa Monica. Route: Lincoln Blvd. to El Segundo Blvd. ALAN FEUERSTEIN (6250-26, Ext. 1749), EX. 5-8084. (13-12)

SEPULVEDA & 79TH, Los Angeles. DOLORES ROCHFORD (9320-32, Ext. 2151). OR 7-7621. 13-12

(Zone 13)

WASHINGTON and CENTINELLA, Culver City. (Ride wanted, but will join car pool.) PAUL TRUAX (5142-14, Ext. 2042 or 451). EXbrook 8-5875. 13-13

CULVER BLVD. & OVERLAND, Culver City. Route: Overland, Jefferson, Freeman, Centinela, to Prairie. JAMES R. HINSHAW (9330-92, Ext. 1471), VE. 8-2413. (13-13)

VENICE & SEPULVEDA, West Los Angeles 34. Route: Sepulveda to Centinela, Anza, Century, Hawthorne Blvd. STANLEY J. ALLENBY (5200-23, Ext. 2667), VE. 9-2080. (13-13)

(Zone 14)

SAN FERNANDO & VERDUGO RD., Los Angles (65). (Arroyo Seco Freeway to Harbor Freeway, Figueroa, El Segundo. Interested in car pool.) AL GOSSELIN 3460-194, Ext. 2471). CL 7-4363. 13-14

WASHINGTON & LA BREA, Los Angeles (16). HUGH L. McGUIRE (3350-133, Ext. 2165), WE. 1-3042. (13-14)

MAGNOLIA BLVD. & HOLLYWOOD WAY, Burbank. Route: Hollywood Freeway, Highland, Olympic, to Crenshaw. (Interested in carpool). HARTLEY H. KING (5300-37, Ext. 1447). TH. 8-9022.

SHERMAN WAY & LANKERSHIM, North Hollywood. Route: Lankershim to Freeway, Highland to La Brea to Prairie. (Interested in carpool). R. PHILLIPS (3460-165, Ext. 512), PO. 5-3694. (13-14)

CRENSHAW BLVD. & RODEO ROAD, Los Angeles. Route: Buckingham to Santa Rosalia, Vernon, Crenshaw, 59th St., 8th Ave., to Crenshaw. KAROLL SHURTZ (3120-21, Ext. 1229, 1689), AX. 2-3692. (13-14)

CRENSHAW & 60TH, Los Angeles 43. (Interested in car pool.) (3230-123. PLeasant 1-1411. 13-14

RIDES OFFERED

7:30 a.m. — 5:15 p.m.

(Zone 13)

OVERLAND & OLYMPIC, West Los Angeles. R. E. MATHEWSON (3230-144, Ext. 1592), AR. 7-9830. 14-13

3:45 p.m. — 12:15 a.m.

(Zone 5)

PARAMOUNT & ARTESIA, North Long Beach. (Routes: Artesia, Alemeda, Rosecrans, Crenshaw or Paramount.) DOROTHY J. BELANGER (4230-211, Ext. 631). 2-7337. 16-5

NORWALK BLVD. & 208TH ST., Artesia. (Interested in car pool.) EDWARD E. WEYRICK (5501-490, Ext. 2200). 16-5

(Zone 9)

SEPULVEDA & HAWTHORNE, Torrance. (Interested in car pool.) RICHARD A. HULME (7100-260, Ext. 1611). FR 5-5604. 16-9

HWY. 101 & PALOS VERDES DR. Hollywood Riviera. EUNICE KIRKBERG (5336-227, Ext. 2768). FR 5-5886. 16-9

(Zone 10)

SEPULVEDA & ROSECRANS, Manhattan Beach. RAY GRISH (5223-412, Ext. 502). FR. 2-4673. 16-10

4:45 p.m. — 1:15 a.m.

(Zone 1)

HOLLYWOOD BLVD. & VERMONT, Hollywood 27. (Route: Vermont to 7th St., to Western or Arlington. ANDRE R. DORLET (5586-657, Ext. 1973, NO. 3-8680. (18-1)

GRANT & ADAMS, Los Angeles 7. Route: Hoover, Florence to Prairie. GILL C. TEYECHEA (5587-684, Ext. 2236), PR. 9669. (18-1)

VIRGIL & MELROSE AVE., Hollywood 4. Route: Vermont, Adams, Western, 74th St. to Crenshaw. BETTY L. JACOBS (5507-416, Ext. 526), NO. 3-6712. (18-1)

(Zone 2)

SANTA BARBARA & FIGUEROA ST., Los Angeles. TED SORENSEN (5534-280, Ext. 2244), ADams 3-3084. 18-2

(Zone 4)

TWEEDY & DOROTHY, South Gate. (Will pick up on Imperial or Tweedy anywhere west of Hildreth.) WALTER R. DUFFY (5970-222, Ext. 2161). LO 7-1698. 18-4

(Zone 5)

WILMINGTON & COMPTON, Olive or Rosecrans, Compton. JUNE KLINE (7000-216, Ext. 530), NE. 5-1218. (18-5)

STUDEBAKER & CARSON, Long Beach. EDWARD D. DENNIS (5534-279, Ext. 2249). (18-5)

STUDEBAKER RD. & SPRING AVE., Long Beach. Interested in car pool. WM. R. ARMSTRONG (5503-827, Ext. 2216). L. B. 398157. 18-5

STANTON BLVD. & CHAPMAN BLVD. (Stanton Blvd. to Highway 101 to Rosecrans), Garden Grove. IRENE BLUME (5544-403, Ext. 2645). 18-5

PARAMOUNT BLVD. & GOLDEN AVENUE, Paramount. JOHN FEEZELL (5544-474, Ext. 2645). 18-5

OLIVE & LONG BEACH BLVD., Long Beach. ROBERT J. WALDEN (5587-483, Ext. 1947), NE. 5-2698. 18-5

ORANGETHORPE & WOODS, Fullerton. (Interested in car pool.) EUGENE J. SNELLER (5587-414, Ext. 1947). LA. 5-8729. 18-5

(Zone 10)

MANHATTAN BEACH AREA. (Room for 4 passengers.) DON R. CRUIKSHANK (7230-242, Ext. 2201). FR 2-3627. 1018-

Rides Wanted

7:00 a.m. — 3:45 p.m.

(Zone 1)

NORMANDIE & 50TH, Los Angeles. IWANNA MARTIN (5503-366, Ext. 2432), OS 5-4502. 2-1

WESTERN & 2ND ST., Los Angeles. WANDA TEAS (4250-50, Ext. 596). 2-1

OLYMPIC & WESTERN, Los Angeles. GRACE DAWSON (6457-49, Ext. 478 or 1709). 2-1

(Zone 2)

CENTURY & WESTERN, Los Angeles (47). BARBARA CARTER (5222-11, Ext. 1918), PLymouth 6-3401. 2-2

WASHINGTON & LOS ROBLES, Pasadena. Interested in car pool. ELGIN C. MASON (5411-71, Ext. 2186).SY. 4-0105. 2-2

(Zone 3)

MANCHESTER & CENTRAL, Los Angeles. CECILIA S. CENICERAS (5621-167, Ext. 1852-2208). KI 5877. 2-3

(Zone 4)

FIGUEROA & IMPERIAL HWY., Los Angeles. CECILIA M. SULLIVAN (5544-45, Ext. 2645). PL 6-4458. 2-4

ATLANTIC & IMPERIAL HWY., Lynwood. NORMAN HENRY (7510-33, Ext. 1609). 2-4

RIDES WANTED

7:00 a.m. — 3:45 p.m.

(Zone 5)

ROSECRANS & FIRESTONE BLVD., Norwalk. (Interested in car pool primarily—anywhere along Rosecrans Ave in Norwalk.) CALVIN R. COOPER (7510-63, Ext. 1609). TOrrey 4-5350. 2-5

ATLANTIC & ROSECRANS, Compton. FRED YUNT (5501-93, Ext. 2200 or 1814). NE 5-4824. 2-5

DEL AMO & PARAMOUNT or Downey, Lakewood. (Interested in car pool.) AL COTKIN (5587-399, Ext. 1947). L.B. 394518. 2-5

(Zone 7)

VAN NESS & 156TH STREET, Gardena. BURLEY J. DURBIN (5411-12, Ext. 1366), ME. 4-1707. 2-7

(Zone 8)

CARSON & WESTERN, Torrance. (Interested in car pool.) R. L. FRAIM (5373-91, Ext. 2495-2497). FA. 8-1287. 2-8

CRENSHAW & 171ST ST., Torrance. (Interested in car pool.) MAX STERN (5501-331, Ext. 2200), ME. 4-6748. 2-8

(Zone 9)

BETWEEN HWY. 101 & CATALINA AVE., Redondo Beach. MARY H. SHIMKO 5504-525, Ext. 1424). FR 5-4076. 2-9

SAPPHIRE & PACIFIC COAST HIGHWAY, Redondo Beach. LORIN ANN BEWLEY (5352-48, Ext. 1445). FR 9-2688. 2-9

(Zone 10)

RAMONA & 142ND ST., Hawthorne. DOROTHY G. HOOD (5507-323, Ext. 526). OS 5-5229. 2-10

HIGHLAND & 6TH ST., Manhattan Beach. MILDRED JOHNSON (4230-223, Ext. 631). 2-10

SEPULVEDA & 8TH ST., Hermosa Beach. (Anywhere in vicinity of 8th St. in Hermosa Beach.) PAT WELTON (6260-13, Ext. 1683 or 1684). FR 9-2119. 2-10

PALM DR. & 14TH or 16TH, Hermosa Beach. VIVIAN FLY (6260-16, Ext. 1683-1684). FR 2-1605. 2-10

(Zone 12)

STRAND & LINCOLN, Santa Monica. C. M. HOGUE (5589-104, Ext. 1913). EX 9-2330. 2-12

HILL ST. & 5TH, Santa Monica. LEWIS DARRELL KISER (5503-395, Ext. 2464), EX. 9-3305. 2-12

INGLEWOOD AVE. & 130TH or Ramona Ave. & 130th, Hawthorne. MARY MAKIN (Dept. 5351-25, Ext. 1662). OSborne 6-7055. 2-12

(Zone 13)

ROBERTSON BLVD. & NATIONAL BLVD., Los Angeles 34. FRANK FEINGERTS (5339-59, Ext. 2145), VE. 9-8834. 2-13

LA BREA & MARKET ST., Inglewood. RICO HERNANDEZ (5508-313, Ext. 2230). ORchard 2-3758. 2-13

(Zone 14)

BURBANK BLVD., Burbank. (Via Barnham, Highland and La Brea.) PAULINE RAMBERG (5353-26, Ext. 1628). THornwall 2-1975. 2-14

LA BREA & BEVERLY BLVD., Los Angeles. Interested in car pool. EDWARD J. NETZER (5620-112, Ext. 1265), WE. 3-6994. 2-14

WOODMAN & CHASE ST., Pacoima. Interested in car pool. M. FIGOFF (5587-85, Ext. 1947), EM. 2-5541. 2-14

RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 1)

SLAUSON & ARLINGTON, Los Angeles. ANN CARROLL (1410-25, Ext. 1442). AX 2-4247. 3-1

WESTERN & SANTA BARBARA, Los Angeles. MARTHA HAWKSHAW (3144-859, Ext. 1848). AX 2-9074. 3-1

WESTERN & SLAUSON, Los Angeles. NINA GREEN (3273-814, Ext. 1224). TW 5547. 3-1

SUNSET BLVD. & WILTON PLACE, Los Angeles. WILLIAM R. FAUGHT (8100-45, Ext. 2717). 3-1

VERMONT & JEFFERSON, Los Angeles 7. MILDRED SUTHERLAND (7500-23, Ext. 2623). RE 7613. 3-1

(Zone 2)

CRENSHAW & 111TH PLACE, Inglewood. GENEVA SVENDSEN (3140-841, Ext. 796), PL. 6-5444. 3-2

STATE & SANTA ANA, Huntington Park. MATILDA ZURICH (3410-814, Ext. 446). LOgan 5-1748. 3-2

MANCHESTER & NORMANDIE or Western, Los Angeles. MRS. GLORIA DE VRIES (6230-98, Ext. 2569). 3-2

(Zone 4)

LONG BEACH BLVD. & BIXBY RD. or Carson, Long Beach. GORDON D. MADISON (3315-54, Ext. 414). L.B. 40-1835. 3-4

PARAMOUNT & IMPERIAL or Rosecrans, Hollydale. E. A. PARKISON (3315-38, Ext. 414). MEtcalf 3-5922. 3-4

PARAMOUNT & IMPERIAL, Downey. (Interested in car pool.) SEEFELD (3257-343, Ext. 2357), TO. 9-7564. 3-4

(Zone 5)

LONG BEACH & COMPTON BLVD., Compton. CARL ROSEN (5910-35, Ext. 2541). NEwmark 5-8414. 3-5

ATLANTIC & ROSECRANS, Compton. (Interested in car pool.) ED OHM (3460-826, Ext. 2471). NE 5-1989. 3-5

SPRING & BELLFLOWER or Studebaker, Long Beach. SHIRLEY THOMPSON (5339-51, Ext. 1771). 3-5

PALO VERDE & SPRING STS., Long Beach. (Two men want rides to and from work.) LOUIS B. RACE (5112-10, Ext. 1475). 3-5

ASH STREET and SPADRA ROAD, Fullerton. (Want to share ride in car pool.) ALICE WILLIAMSON (6110-62. Ext. 1208). TW 1850 3-5

LAKEWOOD & SOUTH or Rosecrans, Long Beach. JACK D. GORDON (3410-126, Ext. 404). MEtcalf 3-4059. 3-5

STUDEBAKER ROAD and SPRING STREET, Lakewood. ALICE WILLIAMSON (6110-62, Ext. 2108). 3-5

(Zone 6)

BUDLONG & 158TH, Gardena. (Car pool desired.) JIM HAINE (3315-13, Ext. 2564). ME 9-6032. 3-6

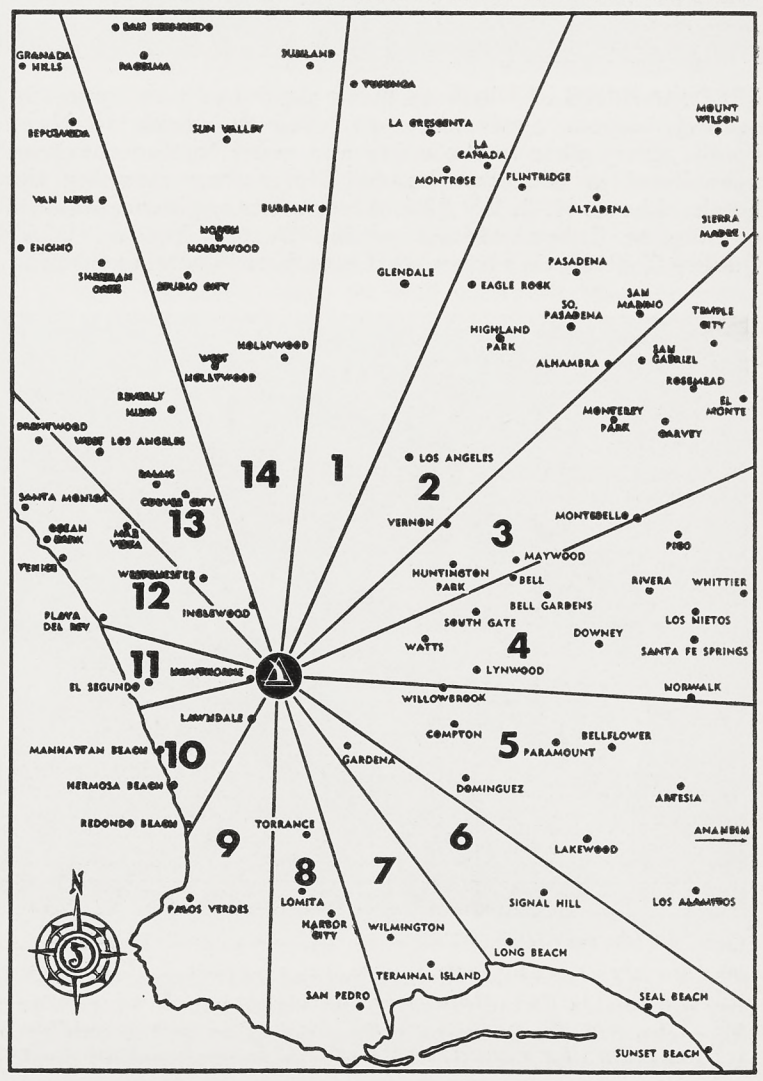
(Zone 7)

LOMITA & AVALON, Wilmington. RAMONA NOON (9330-11, Ext. 1474). 3-7

(Zone 8)

YUKON & ROSECRANS, Hawthorne. DOROTHY L. JONES (4270-46, Ext. 2042). OSborne 5-4087. 3-8

(Continued on Page 7)



CERTIFIED COMPLETE BY QC

RECORDS FOR EVERY AIRPLANE

An old adage in aviation circles states, "Before an airplane can fly, the weight of the paperwork must equal the weight of the airplane."

Although the old saw is typical of the industry's salty shop humor, one group at Northrop who would come up with comparative figures to disprove it are the Norcrafters in the Delivery and Coordination section of Quality Control.

This group, directly supervised by R. S. "Bob" Watt, compiles historical records for, verifies completeness of, and delivers a large number of airplanes each month to Air Force ferry pilots.

Each ship must be certified complete to the last minute detail, including spare light bulbs for the instrument panel, canopy keys, and many other items.

In addition, each airplane must be certified complete in accordance with the Air Force contract and all applicable changes under which the airplane is manufactured.

In accomplishing the above "Bob" Watt's group must process several thousand individual documents to ascertain contractual completeness of each ship. For example, the current F-89D has over 500 "Engineering Change Proposals" authorized by an equal number of "Contract Change Notifications" affecting the original contract.

Each of these engineering changes must be researched to verify accomplishment by proper company authority—that is, the change must be reflected in an "Engineering Work Order", a "Work Release Order", leading to "Job Summary" and "Inspection Item" forms for a specific production station or cost center in the airplane's book.

In addition, all manufacturing records are summarized into approximately 20 pounds of Air Force forms—the individual airplane's historical records and delivery documents.

Thus, all company flight forms must be monitored by the group. All applicable Air Force "Technical Orders" must be entered on the airplane's historical records.

This information is furnished to the Delivery and Coordination section by Contract Administration, since contractual negotiation for company compliance with various "Technical Orders" is very nearly continuous.

The airplane's complete historical records leave with the airplane when it is accepted by the Air Force, and remain with it during its service life.

Delivery and Coordination section's three offices—Hawthorne, Ontario, and Palmdale—are the last link in the production chain, and it is their job to ascertain that Air Force receives all that is contracted for in purchasing agreements.

In so large an organization communication of work authority can be difficult. Negotiated changes go through many hands, and any mistake or misunderstanding would be compounded—thus, prime function of the section is good communication.

Recent months have seen such a rapid increase in company business that changes have been made in communication procedures to better handle the increased information laad.

The new streamlined system was developed by Quality Control with the assistance of Engineering; Change Control; Systems Administration; and Contract Administration. It has resulted in a markedly improved information control, a prime example of which was recent delivery of the first airplane on the current contract.

THEY VERIFY completeness of Scorpions leaving Hawthorne plant. From left: Don Mayer; Jane Smith; R. S. Watt, supervisor, Quality Control, Delivery and Coordination section; Earl Weatherald; Natalie Taylor; Karen Lindstrom; Charles Simpson; and then Marie-Ann Armstrong.

READY for acceptance, the paperwork on Scorpion is checked by Major Robert Green, Palmdale Airport administrator. From left: Gerry Roberts; Bob Watt; Robert C. Smith; Norman Hearne, foreman, Delivery and Coordination section at Palmdale; and Shirley A. Gardner.

ONTARIO NORCRAFTERS of Delivery and Coordination section check items with Lieutenant Robert E. Davis, ferry pilot, 64th Fighter Interceptor Squadron, USAF, before takeoff. They are: Bob Watt; M. B. "Mac" McGraw, departmental assistant; Ruth Matthews; Leslie O'Rourke; Joseph Sillers.

Going My Way

(Continued on Page 6)

RIDES WANTED

7:30 a.m. — 4:15 p.m.

(Zone 8)
WESTERN & 205TH ST., Torrance. BARBARA GOODWIN (4240-17, Ext. 777). FA 8-6061. 3-8

CRENSHAW & 179TH ST., Torrance. JOYCE MILLER (4240-15, Ext. 777). 3-8

CRENSHAW & COMPTON, Gardena. (Ride home only.) JEAN GARZA (1441-93, Ext. 691). 3-8

MANHATTAN BEACH BLVD. and CRENSHAW, Gardena. ROSEMARY R. BROWN (6005-19, Ext. 1813 and 781). OS 5-3459). 3-8

GAFFEY & 28TH, San Pedro. Interested in car pool. MARILYN EDMONDSON (6630-20, Ext. 1787). TE. 3-2519. 3-8

(Zone 9)
HAWTHORNE & PALOS VERDES DR., Palos Verdes. (Interested in car pool.) JOHN D. O'CONNOR (7500-20, Ext. 2623 or 2624). FR 5-6458. 3-9

TORRANCE BLVD. & PACIFIC COAST HWY., Redondo Beach. CATHY BRAUSSEAU (9310-19, Ext. 2204). 3-9

MACKAY LANE & REDONDO BEACH BLVD., Redondo Beach. Ride home only. BETTY BAHR (4220-69, Ext. 2442). 3-9

(Zone 10)
LAUREL AVE. & 35TH, Manhattan Beach. LOUISE LACKEY (6230-84, Ext. 2552). FR 2-5881. 3-10

MAPLE & ROSECRANS, Manhattan Beach. DON SHERMAN (5240-22, Ext. 2309). FR 4-1773.

HAWTHORNE & ROSECRANS or Broadway, Hawthorne. HELEN BURKHOLDER (3140-70, Ext. 1263 or 650). 3-10

EL SEGUNDO BLVD. and HAWTHORNE BLVD., Hawthorne. DOROTHY LOOMIS (5340-25, Ext. 2341 or 2775). 3-10

REDONDO AVE. & MANHATTAN BEACH BLVD. or Aviation Blvd. & 10th St., Manhattan Beach. MARGARET JACKSON (9320-54, Ext. 2151). FR 9-2272. 3-10

ROSECRANS & HIGHLAND, Manhattan Beach. KAY LAWRENCE (1810-824, Ext. 1861). FRontier 9-3512. 3-10

COMPTON BLVD. & INGLEWOOD AVE., Lawndale. ROBERT W. COOPER (5530-41, Ext. 2610). OS. 5-3726. 3-10

(Zone 12)
MANCHESTER & LINCOLN, Los Angeles. (Interested in car pool.) WILLARD RIPPER (3510-390, Ext. 567). OR 1-7972. 3-12

CENTURY BLVD. & EUCALYPTUS AVE., Inglewood. VIOLA D. BODDY (7410-33, Ext. 2284 or 1232). OR. 7-6948. 3-12

(Zone 13)
ARBOR VITAE & EUCALYPTUS, Inglewood. FRED BISHOP (8100-62, Ext. 2717). OR 7-5354. 3-13

LA TIJERA & CENTINELLA, Los Angeles (45). N. ALMOND (3255-183, Ext. 2101). 3-13

LA BREA & MANCHESTER, Inglewood. (Two weeks only—August 16-27.) DOLORES A. WILSON (4100-18, Ext. 2331. OR 7-9805. 3-13

MANCHESTER & EUCALYPTUS, Inglewood. MARJORIE ANHALT (4220-103, Ext. 2738 or 1719). OR 2-7991. 3-13

WASHINGTON and CENTINELLA, Culver City. (Ride wanted, but will join car pool.) PAUL TRUAX (5142-14, Ext. 2042 or 451). EXbrook 8-5875. 3-13

SLAUSON & SEPULVEDA, Culver City. R. J. HUCK (5940-57, Ext. 2661). VE. 8-2267. 3-13

WILSHIRE BLVD. & SEPULVEDA, Westwood. Interested in car pool. PAUL H. GOODMAN (3251-345, Ext. 2693). 3-13

(Zone 14)
WOODMAN & ROSCOE or Sherman, Van Nuys. (Interested in car pool.) EMMOGENE N. SIMPSON (1435-88, Ext. 2761). ST 5-5229. 3-14

SAN FERNANDO & VERDUGO RD., Los Angeles (65). (Arroyo Seco Freeway to Harbor Freeway, Figueroa, El Segundo. Interested in car pool.) AL GOSSELIN 3460-194, Ext. 2471). CL 7-4363. 3-14

CRENSHAW & 60TH, Los Angeles 43. (Interested in car pool.) (3230-123. PLeasant 1-1411. 3-14

PRAIRIE AVE. and BUCKTHORNE, Inglewood. JEANETTE D. BRADY (1436-22, Ext. 1436). OR 2-8132. 3-14

7:30 a.m. — 5:15 p.m.

(Zone 10)
MANHATTAN & LONGFELLOW, Hermosa Beach. R. E. SHIRLEY (3270-120, Ext. 1224). 4-10

8:00 a.m. — 4:45 p.m.

(Zone 2)
VAN NESS & 108TH, Los Angeles 47. MARGUERITE KEYSER (4210-17, Ext. 616). PL 4-3474. 5-2

(Zone 10)
MANHATTAN BEACH BLVD. & SEPULVEDA or Aviation, Manhattan Beach. FR 9-2224. 5-10

(Zone 3)
FLORENCE AVE. & MOUNTAIN VIEW, Huntington Park. THOMAS B. O'DELL (4130-230, Ext. 656). 6-3

(Zone 5)
NORWALK BLVD. & 208TH ST., Artesia. (Interested in car pool.) EDWARD E. WEYRICK (5501-490, Ext. 2200. 6-5

RIDES WANTED

3:45 p.m. — 12:15 a.m.

(Zone 5)
PARAMOUNT & ARTESIA, North Long Beach. (Routes: Artesia, Alemeda, Rosecrans, Crenshaw or Paramount.) DOROTHY J. BELANGER (4230-211, Ext. 631). 2-7337. 6-5

OLIVE & WILMINGTON BLVD., Compton. PAT DE PASQUALE (1410-213, Ext. 2641). NE 8-4269. 6-5

(Zone 8)
PACIFIC COAST HWY. & PENNSYLVANIA AVE., Lomita. EUGENE M. GERRARD (5501-248, Ext. 2200). 6-8

(Zone 9)
SEPULVEDA & HAWTHORNE, Torrance. (Interested in car pool.) RICHARD A. HULME (7100-260, Ext. 1611). FR 5-5604.

HWY. 101 & PALOS VERDES DR., Hollywood Riviera. EUNICE KIRKBERG (5336-227, Ext. 2768). FR 5-5886. 6-9

(Zone 10)
SEPULVEDA & ROSECRANS, Manhattan Beach. RAY GRISH (5223-412, Ext. 502). FR. 2-4673 6-10

(Zone 12)
AIRPORT BLVD. & 93RD ST., Los Angeles 45. LOIS J. HOBIN (4100-220, Ext. 2331. OR. 7-8968. 6-12

PEARL & 31ST or Ocean Park Blvd. & 31st, Santa Monica. ED GILLESPIE (5445-273, Ext. 1926)). EXbrook 6-7384. 6-12

MANCHESTER & DUNBARTON, Los Angeles. G. WEGNER (4130-232, Ext. 656). ORchard 1-9888. 6-12

(Zone 14)
SUNSET & VINE or Highland, Hollywood. F. X. SULLIVAN (5501-489, Ext. 2200). HO 7-4161. 6-14

3:45 p.m. — 1:15 a.m.

(Zone 3)
GAREY STREET & 5TH, Pomona. D. D. KRUMWIED (5223-55, Ext. 562). LY. 2-2869. (7-3)

4:45 p.m. — 1:15 a.m.

(Zone 1)
VERMONT & 29TH ST., Los Angeles. WM. C. DAVIDSON (5504-404, Ext. 1424) RE. 3-4536. (8-1)

FIGUEROA or VERMONT & JEFFERSON, Los Angeles. ROBERT BERTOLDI (5233-222, Ext. 2466). (8-1

(Zone 3)
MANCHESTER & BROADWAY, Los Angeles. R. E. SEEBOLD (5920-245, Ext. 1314).

(Zone 4)
LONG BEACH BLVD. & IMPERIAL HWY., Lynwood. PETER GUGLIELMO (7520-230, Ext. 625), NE. 2-9256. (8-4)

(Zone 5)
EL SEGUNDO & GRANDIE, Compton. SALVADOR LARDIZABAL (5502-260, Ext. 2741), NE. 2-9976. (8-5)

STUDEBAKER RD. & SPRING AVE., Long Beach. Interested in car pool. WM. R. ARMSTRONG (5503-827, Ext. 2216). L. B. 398157. 8-5

ORANGETHORPE & WOODS, Fullerton. (Interested in car pool.) EUGENE J. SNELLER (5587-414, Ext. 1947). LA 5-8729. 8-5

(Zone 7)
EVALON & SEPULVEDA, Wilmington. SHARON WRIGHT (6250-262, Ext. 223).

(Zone 9)
PRAIRIE & REDONDO BEACH BLVD., Hawthorne (Ext. 472) (8-9)

(Zone 10)
HERMOSA AVE. & 22ND, Hermosa Beach, JEANNE JACKS (7200-211, Ext. 1875), FR. 4-0608. (8-10)

MANHATTAN BEACH BLVD. & MANHATTAN AVE, Manhattan Beach. JOSEPH MANCUSO (5241-432, Ext. 1455). (8-10)

ROSECRANS & MAPLE, Manhattan Beach. DOTTY WEISEL (4100-213, Ext. 2331).

(Zone 12)
MANSEL & 104TH, Inglewood. RONALD LE SAGE (6457-246, Ext. 478 or 479). PL. 4-8773. (8-12)

SPEEDWAY & WINDWARD or Pacific & Main St., Venice. EDITH JARAMILLO (5534-290, Ext. 2244). 8-12

CULVER BLVD. & CENTINELLA or Washington, Venice. MARY BURFORD (5534-227, Ext. 2244), EX. 8-1217. 8-12

PICO & 14TH ST., Santa Monica. GENE F. NOONER (5585-285, Ext. 1243).

(Zone 13)
VENICE BLVD. & SEPULVEDA BLVD., Los Angeles 34. ROBERT M. LEVENTHAL (7210-231, Ext. 2206). VE. 9-8596. (8-13)

(Zone 14)
MANCHESTER & PRAIRIE, Inglewood. D. W. JURS (6150-221, Ext. 1507). OR 4-2672. 8-14

Miscellaneous (Split Shifts)

(Zone 1)
VERMONT & OLYMPIC or PICO, Los Angeles (Hours: 4:15 to 12:45). GOLDA BROWN (6260-227, Ext. 1684). DU. 7-6215. (10-1)

(Zone 9)
HAWTHORNE BLVD. & SEPULVEDA, Torrance (Hours: 12:15 P.M. to 9:00 P.M.). ROSALIE FISHER (4300-35, Ext. 2436). FR. 5-5096. (10-9)

BBSF CLASSIFIEDS

BBSF classified ad service is provided free of charge to all Norcrafters.

Use regular Barter, Buy, Sell or Free Form 59-308 (10-53) available from stationery stockrooms, department clerks, Northrop News Office, Personnel Activities & Services, plant lobbies.

Ads will be run one time only. If you wish the ad repeated, please fill out another form and forward to the Northrop News Office, Department 4280, Zone 20.

Box numbers will be provided to Norcrafters who do not have home phones or who do not wish calls. Replies to box numbers are to be in writing. Box number replies will be forwarded by the News Office without delay.

Ads for agencies, commercial enterprises and private businesses are not accepted.

Deadline is Wednesday before publication.

FOR SALE

TIRES, two 6:70x15 w/w with tubes, 8000 miles of rubber, $2.50 each, PARAKEET CAGE, special built, 2′ high, tree inside with roosts, etc., $2.50. PL. 4-4384. A

AUDIO AMPLIFIER, 5 tubes, built-in preamplifier for G.E. magnetic cartridge; can be used with radio tuner, mike and records, $25; V-M RECORD CHANGER, complete with cartridge, plays all sizes, $20; 12″ SPEAKER in base reflex enclosure, $15; TYPEWRITER, Royal portable, excellent condition, $55, LUIS E. ERO. Reply in writing to Northrop News, Box 2606. A

DOUBLE BED and springs $10, DRESSER, $10. L. J. BAYER. Reply in writing to Northrop News, Box 2605. A

PIANO and bench, upright, excellent condition, cherry wood, $100. J. E. CRAWFORD, PL 2-0881. A

AIRPLANE, Funk Model B, 1941, rebuilt engine, prop and windshield like new, side windows, like new fabric in fuselage, wings need rebuilding. Must sell, $175, JOSEPH PASS, PL. 5-6826. A

BUICK, 1948 Super station wagon, radio, heater, back-up lights, directional lights, conventional shift, welded double ball trailer hitch, attachment for electric trailer brakes, and boat-rack on top, $450. R. L. BENAVIDEZ, DIckens 2-4984 or PLeasant 1-9534. A

TELEPHOTO LENS, "8" Wollensak, f5.6, 1 second to 1/400, synchronized for flash, press focus button, for 2¼x3¼ bellows cameras, $90 cash. JOHN SAMARAS. Reply in writing to Northrop News, Box 2607. A

NORTHROP NIGHT AUGUST 7—TV PLUG AUGUST 6

"The Most Danceable Band in the Land", Al Donahue and his orchestra, will play for Norcrafters on August seventh—Northrop Night—at the Santa Monica Ballroom.

Special discount tickets of $1.20 per couple may be picked up at PA&S offices, Plants One and Three, or from PA&S representatives, all facilities.

On KABC (Channel 7) the previous night—Friday, August 6—Donahue is slated to play the new NRC song hit "Lend Your Leisure . . . " on his TV show from 9:30 to 10:30 p.m.

FOR SALE

MANIFOLD, Star Marine water cooled, pair, for Ford or Mercury, excellent condition, $25. H. WING, OXford 2-1531.

LIVING ROOM COUCH and CHAIR, Kroehler, wool frieze covering, excellent condition, reasonable. PAULINE HART, PLeasant 2-3052. A

RADIO-PHONOGRAPH combination, RCA table model, plays 45 RPM records, has special switch for 3-speed attachment, $35. HAL JACOBS, RE 3-8810. A

LADY'S DRESSMAKING FORM, adjustable, like new, $8. Orchard 1-4080.

HOUSE, large 2-bedroom, in heart of Hawthorne, 1 block from school, ½ block from shopping center, large lot 50′x175′, 2/3 of back yard has 6′ solid fence, $500 down, R. H. MARTIN, OS. 6-7215.

DEEP FREEZE, 11 cubic feet, $200. KATHRYN B. KORHEL, ME 9-1488. A

HOUSETRAILER, 25′, 4-burner oven stove, electric refrigerator, just like new inside and out, $800. E. M. SANNE. Reply in writing to Northrop News, Box 2609.

HOUSE, 3-bedroom frame, lot 72′x303′, A-1 zone, with 300-hole rabbitry and equipment. $11,000 — $2500 down. OR. 1-7048. A

TITLER, Premier 16 or 8mm, has everything, letters included, used only once, also other equipment, $20 takes it. DAVID J. HADDAD, OS. 6-9567. A

WILLYS, 1953 Aero, 6500 miles, like new, $1400—$200 down, DAVID J. HADDAD, OS. 6-9567. A

TIRES AND TUBES, used, three U. S. Royal Masters 8:20x15, one 8:00x15 white wall, $15 lot, C. B. EDINGTON, JR. Reply in writing to Northrop News, Box 2614. A

TRIPLEX, two 1-bedroom, one 2-bedroom, natural finish wood, hardwood floors, large living room, wall heat, disposals, garages, income $260 month, located near Century Blvd., no brokers, $26,000, $10,000 down, DAVID D. HOGAN, PLymouth 6-6501. A

BED AND MATTRESS, rollaway, cheap, G. A. ROYSE, OS. 5-3811. A

TRAILER, 2-wheel, 4′ x 6′, good condition, spare tire and trailer hitch included, LOIS J. HOBIN, ORchard 7-8968.

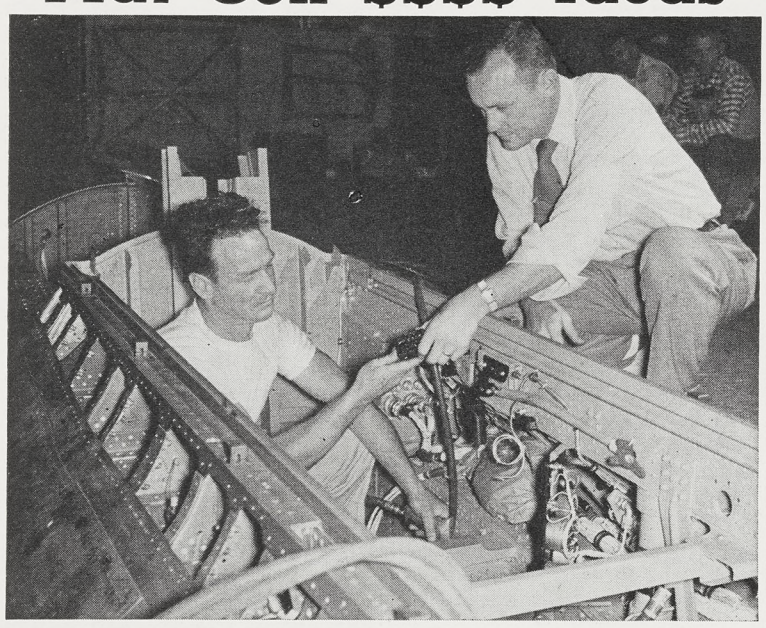
FENDER SKIRTS, 1948 Pontiac, like new, $10, EDW. CHESWICK, ORchard 7-4365. A

FLOOR LAMP, good condition, combination reflected ceiling and direct light, $3, P. F. WALLMAN, AX. 3-2670 between 12 noon and 1 p.m. A

COUCH AND CHAIR, Kroehler, excellent condition; 3 custom made lamp shades, reasonable, PAULINE HART, PLeasant 2-3052. A

CAMERA, Japanese Nikon with case, 50mm; FI.4 lens, sells for $300, never been used, $200, LLOYD B. CARTER, LO 7-3735. A

Mat Con $$$$ Ideas



SUGGESTION AWARD went to W. C. Newman, F-89 Fuselage Sew-up and Primary Installation, for an idea suggesting jig to drill holes accurately in tee angles. Assistant Foreman George Fulton is shown with Newman. New method is easier than former one, which necessitated laying out the holes.

FOR SALE

BASSINETTE, extra large, legs and hood, covered in washable plastic, just like new, NANCY J. FULLER, OS. 6-7109. A

REFRIGERATOR, Coldspot, 6′, 1938, unit and motor overhauled, $35, J. W. McGRATH, AX. 1-9819. A

RUG, Belgian Oriental 9x12, worn very little, $30, G. A. SOLIE, VErmont 9-6069. A

CHEVROLET, 1942 station wagon, fair condition, good tires, top, etc.; $165, B. A. NIEMEIR, EX. 4-6957. A

PONTIAC, 1954 Starchief Custom Catalina, 5800 miles, Hydra-Matic, radio with dual speaker, heater, whitewalls, easy-eye glass throughout, etc., priced to sell, ORchard 1-6061. A

FORD, 1953 panel truck, 6 months, 9700 miles, $295, cash and balance at $63.28 per month, HERM SCHULTZ, EX. 8-6392. A

IRONRITE, original price $269, deluxe ironer, white cabinet model, practically new, $125, or any reasonable offer; SHOTGUN, Mossberg 16 gauge, with C-Lect choke, 1 box shells, cleaning gear, gun case, extra clips, like new, hand finished stock, $50, or any reasonable offer, WALTER N. INGHAM, OR. 2-8980. A

CHEVROLET, 1942 club coupe, lowered, nosed and decked, ¾ race, good condition, $175, NICK GANSEMER, OS. 6-5592. A

FORD, V8, 1936 coupe, good tires, radio, good condition, good work car, $65 cash, JOHN PAWLICKI, DA. 6-1625. A

FORD, six, 1949 tudor sedan, $350, K. M. PYOTT, MEnlo 9-2354. A

SEWING MACHINE, electric, portable, like new, in attractive green case, $60; DAVENPORT and CHAIR set, $65; 17″ TV console, $65; Table LAMP, $9, PL. 5-5154. A

HOUSE on R-2 corner lot, two years old, Inglewood, large yard, near grade school, across street from proposed high school; fireplace, three bedrooms, Pullman bath, dining room, kitchen wired for electric range or gas, service porch, oversize two-car garage, available sometime in August; low down payment can be arranged, $14,500, W. S. COOK. Reply in writing to Northrop News, Box 2616. A

PONTIAC, 1937, $98, top mechanical condition, VIRGINIA STEGALL, ME. 4-2150. A

DINING ROOM SET, Barker Bros. Pacific modern, ash, palomino finish, table, buffet and six beige cocoa upholstered chairs, purchase price $757.50, $300, JOHN G. ANTAL, WEbster 8-9260. A

HEARING AID, Silvertone Model H-16, powered by A and B batteries, battery case fits shirt pocket, new in September, 1951, in good condition, complete with ear adapter and lead wire, used only intermittently, $75, CHARLES M. MILLER, ORchard 1-4814. A

REFRIGERATOR, 1950 8′ Coldspot, excellent condition; 1950 deluxe Kenmore WASHER, automatic turnoff, good working order, must sell fast, what am I offered? GINGER, EXbrook 8-4007 mornings. A

BLUEPRINTS, full set for 30′ Tahiti ketch, designed by John G. Hanna, $15, J. HALL, FR. 5-7085. A

DE SOTO, 1946 4-door custom, radio, heater and many other extras, A-1 condition, recent overhaul, new tires and battery, original paint, $295, L. C. EISELE, MEnlo 9-5021. A

PONTIAC, '50, 2-door sedan, clean, one owner car, $895, ANTHONY F. MATTEO, PL. 2-0916. A

CHRYSLER Windsor 1941 coupe, like new, battery, brakes and header, rebuilt transmission, good tires, $100 full price, ARTHUR A. MORTENSON, AX. 3-3031. A

BOAT, 24′, small cabin, Universal Marine engine, bait tank and pump, head, compass, fiberglass-covered hull, $595 or best offer, DON NORTH, OR. 7-3222. A

BOAT, 14′ Glasspar and 16 h.p. Scott-Atwater motor, reasonable, M. B. WALTER, FR. 4-2190. A

FORD, 1947 convertible, radio, heater, seat covers like new, $270, LLOYD WYNROTH, AXminster 3-9712. A

ELECTRIC STOVE, Frigidaire 1950 model, completely automatic, will accept any reasonable offer, in storage for 3½ years, D. AMORELLI. Reply in writing to Northrop News, Box 2613. A

PLYMOUTH, 1933 business coupe, completely rebuilt throughout, multitude of spare parts included, no sensible offer refused, PAUL M. WATRO, PL. 1-8334 after 7 p.m. A

HENRY J, '52, radio and heater, low mileage, good transportation, $650 cash, R. BALCHER, WH. 6902. A

REFRIGERATOR, Westinghouse, 1949 model, top freezer compartment, 8.8 cubic feet capacity, new insulation rubber around door, new door handle, in perfect condition, $95, FLOYD CALCOTE, PL. 2-9704. A

OLDSMOBILE, 1949, "98" 4-door sedan, 4 new white wall tires, 17,000 miles, $850, H. C. ZEBARTH, AT. 4-6456. A

FIREPLACE SET, like new, 8 piece, drawscreen, paid $89.50, sell for $59.50, OS. 6-6137. A

REFRIGERATOR—6′ Coldspot, 1940, $25, J. W. McGRATH, OR. 7-5804. A

FOR SALE

HOUSE in Palmdale, like new, 3-bedroom stucco on large lot, attractive, well arranged interior, insulated, forced air furnace, $9750, down payment $1000, J. N. BARKER, OR. 1-7332. A

CHINA, Winfield, gourmet pattern, service for six, plus extras; MANGLE, Kenmore, in fine condition, $40, AX. 1-5708. A

CAMERA, Kodak Retina II A. 35mm, 2.0 lens, 1/500 speed, like new, $116 value, make offer, JOANNE CALL, MEnlo 4-9020. A

HOUSE, 3-bedroom, Kentwood area, large fenced yard, wall to wall carpet, disposal, weatherstripped, venetian blinds, double garage, near schools and markets, KELLY J. BURKE, ORchard 1-8393. A

PONTIAC, 1946 station wagon, good deal, LESLIE J. LEWIS, ME. 3-5603. A

WASHER, portable, and 5-way WOOD WORKING MACHINE, $30 each, O. A. BROWN, OS. 6-8743. A

LAND for home site or small ranch for turkeys and chickens, 1¼ acres near the Palmdale Airport and close to Lancaster, low down payment, and monthly payments, LEO W. DAY. Reply in writing to Northrop News, Box 2604. A

KAISER, 1951 4-door Special, overdrive and heater, very clean throughout, $195 for equity, $43.97 per month payments, includes insurance, H. SNAY. Reply in writing to Northrop News, Box 2603. A

PONTIAC, 1954, Custom Catalina, clean, low mileage, like new, with leather upholstery, power brakes, radio, heater, and many other extras, $2875, SAM PHILLIPS, AR. 3-9479. A

CAR COOLER, Thermador, will fit any make car, used once, cost $15.95, will sell for $10, W. H. COVERT, L. B. 201-363. A

MAUSER, 8mm sport stock, excellent condition, $60, H. W. JACKSON, FRontier 7-1074. A

CHEVROLET, 1941, excellent condition, $150, G. SIGURDSON, OR. 7-2340. A

IRONER, portable Armstrong, practically new, $22.50, KATHLEEN EMGE, PL. 3-6744. A

TRAILER, four-wheel, complete with vacuum over hydraulic brakes, 5½′x12′, box type bed, 6:50x16 tires, trailer hitch and vacuum brake control included, $200 or best offer, ROY L. HAWTHORNE. Reply in writing to Northrop News, Box 2600. A

FOOD MIXER, Westinghouse, juicer included, price open, D. D. HOHENSEE, YOrk 1516. A

TELEVISION, 10″ RCA with radio combination, table model with table and inside antenna, excellent condition, $40, MARIAN McDONALD, TOpaz 2-2548. A

HOUSE, plus 3 lovely rental units and 14′x25′ glass enclosed patio, panoramic view of south bay, 75′ frontage, JOHN G. PODHORSKY, FR. 2-5598. A

SAILBOAT, California catamaran, 18′, custom-built, completely rigged, includes sails, boat trailer and mooring, $950, ADELINE MADIGIAN, ME. 4-4378 after 3 p.m. A

SOFA AND CHAIR with slip covers, sterilized and in good condition, $38; very clean flat top STOVE, has pilot $35; Servel REFRIGERATOR 5 cu. ft., make offer, free firewood, D. R. BULL, FR. 4-1152. A

HOUSE, 1 year old, 3-bedroom, many closets, dual thermostat-controlled furnace, large picture window, hardwood floors, center hall, stucco with redwood front, single attached garage, fenced back yard, 5 minutes to beach, 15 minutes to Northrop, $9950, $1950 down, J. LESLIE WALLING, FR. 9-2670. A

BIRD CAGE AND STAND, $7.50; Gruen Veri-Thin man's WRIST WATCH $15, OS. 6-0048. A

SKUNK, female, descented, tame, wonderful pet, will sell for $20, untamed skunk sells for $35 in pet shops, call DEAN MARTIN, OS. 6-7585. A

HEATER, open radiant gas heater, heavy chalk back, original cost, $35, now $10, ideal for artificial fireplace; EXERCYCLE, $175, M. ORTH. Reply in writing to Northrop News, Box 2635. A

REFRIGERATOR, 8 cu. ft. Gibson, $110, STERLING ROWE. Reply in writing to Northrop News, Box 2641. A

HOUSE, 3-bedroom, like new, vacant, immediate possession, fenced rear lot 68′x110′, sacrifice at $9300, $1500 down payment, B. IWASON. Reply in writing to Northrop News, Box 2629. A

PONTIAC, 1950 Catalina deluxe, radio, heater, leather upholstery, white side walls, $1195; GOLF CLUBS and BAG, women's, 8 woods, 5 irons, $20; ICE SKATES, figure, women's, white, size 6 shoe, $10; R. I. BRANNING, FR. 4-3278. A

WASHING MACHINE, Thor, wringer type, good condition, good appearance, about 15 years old, $15 cash, LEE HAZEN, PLymouth 4-9170. A

FOR SALE

FURNITURE, sofa and chair, corner stand, TV stand, TV rocker, Thompson heater with thermostat, wool face rug and pad, chrome table, 4 chairs, Frigidaire washer, wringer type, kitchen stove, wool face rug, rollaway bed and mattress, wood bed, box spring and innerspring mattress, chinaware, silverware and many other items, $250, CHARLES H. SMITH. Reply in writing to Northrop News, Box 2640. A

NASH 600, '41, averages 23 m.p.g., complete motor overhaul last August, make offer; excellent Motorola CAR RADIO, $25, fits any car, originally sold for over $70; BABY BUGGY with perfect leather upholstery; mother of pearl trimmed professional GUITAR, ROBERT CRAIN, OR. 2-3543. A

HOUSE, 3-bedroom, contemporary, G.I. resale, Reseda, w/w carpeting, drapes and cornices, landscaped, unfurnished, asking $13,250 (furnished $1000 additional), $65 per month, 4½% loan, DI. 2-0313. A

BIRD CAGE and STAND, wrought iron, old ivory finish, place for 2 flower pots or whatnots, originally cost $40, will sell for $20; hand carved Chinese LAMP STAND or table. $15, both in A-1 condition, JACK LOEHNIS, L. B. 28290. A

BOAT, 10′, oars and oar locks, launching equipment, excellent condition, $37.50, terms if desired; BAND SAW, 14″, Sprunger, cast case with metal base, ½ h.p. double shafted motor, blades excellent condition, $95 complete, terms if desired, WILL PICQUELLE, LAmbert 5-2767 (Fullerton). A

OLDSMOBILE, 1941 club coupe, good condition, reasonable; PARTS, transmission, overdrive, drive shaft, rear end for 1941 Studebaker Commander, reasonable, G. E. MERRILL, OS. 6-1238. A

BED, with box springs and mattress, Simmons, frame one month old, $70 complete, JACK C. McGUIRE, OR. 7-3051.

HEATER, Arvin portable, like new, $10; HEARING AID, Acousticon, complete with receiver, $35; SEWING MACHINE, Singer, portable, good condition, HOWARD MEYER, OR. 7-4689. A

WINDOW AIR CONDITIONER, ¾-ton refrigerator capacity, filter 100% outside or recirculated air, additional exhaust fan, 1 year old, used 3 months, 4 years remain on warranty, $225, LEE PLEGER. Reply in writing to Northrop News, Box 2637. A

CAMERA, Crown Graphic, supermatic range finder and solenoid, Graflex back, film pack adaptor, film holders, lens hood and filters, Graflex flash, 3-cell 7″ reflector, cost $270, will sell for $175, like new condition, J. H. BRYANT. Reply in writing to Northrop News, Box 2636.

HOUSE, 2 bedrooms and den, 50′x150′ lot, fenced yard, patio, view lot, $9500—low down payment, MARGARET EDWARDS, FRontier 9-2847. A

GUITAR with case and music, Harmony, Spanish style, cost 3 months ago $87, will sell for $50; Brunswick BOWLING BALL, case, and shoes, size 9, all used once, $25, RAY S. COLE, PLeasant 2-1691. A

MIRROR, 40″x50″ plate glass; TOASTER, automatic electric; Electrolux VACUUM CLEANER, and attachments, ¼″ Black & Decker heavy duty DRILL MOTOR; stainless steel flatware REVERE WARE; other miscellaneous articles; POWER MOWER, used 1 year, 21″ rotary, price reasonable, WAYNE STUCKEY. Reply in writing to Northrop News, Box 2632. A

CADILLAC, 1940 Fleetwood sedan, engine just overhauled, clean throughout, extra set of 15″ wheels and good tires, $250; RADIO from 1950 Plymouth, $30; ROBERT L. ULLERY, OS. 6-8433. A

HOUSE, modern, newly-furnished, 3 bedrooms, 2 complete baths, double garage, cinder block fenced backyard, landscaped, $15,000 complete; CEDAR CHEST, Lane, blonde, like new, $55, DON SNIDER, PL. 2-6621. A

HOUSETRAILER, 10′, all-aluminum teardrop, plenty cabinets, A-1 condition, $350 or best offer, J. G. MOORE, FRontier 2-4802. A

ALUMINUM SIDING, 5V crimp, .024x8′ long, 8 sheets, enough for double garage door or shed roof, $20, FRANK JEFFERS, OR. 2-1064. A

BUICK, 1948 4-door sedan, like new tires, clean inside and out, $450, O. E. SIPE, JR., ORchard 1-2344. A

TELESCOPING ANTENNA MAST, steel galvanized, $15; deluxe DeFrostoMatic, automatic refrigerator DEFROSTING CONTROL, $7.50; AIRPLANE ALTIMETER, suitable for auto, $5; .38 caliber full loop cartridge BELT and HOLSTER, $5, K. R. DRAPER, LO. 6-7210. A

Boat and UTILITY TRAILER, 14′ Thompson, 1952 Johnson 25 h.p., electric starter, very good condition, complete, $500, H. DAWSON, FRontier 5-3894. A

(Continued on Page 9)

AT YOUR CREDIT UNION

AUTOMOBILE LOANS are again in effect. Norcrafters with at least three years of continuous service can finance new car purchases, or re-finance older ones, re-paying by the easy payroll deduction method.

BBSF CLASSIFIEDS

(Continued from Page 8)

FOR SALE

RADIO, Silvertone portable, excellent condition, $15. OR. 2-9212. A

HOUSE, 3-bedroom, double garage, fenced backyard, thermostat-controlled heat, one block from Catholic boys' high school, walking distance to El Camino College, close to transportation and shopping center, price open, T. SCHUMACHER, ME. 4-3508. A

REFRIGERATOR, Servel, $60; DINING ROOM SET, beautiful Duncan Phyfe, $65; DINETTE SET, chrome, like new, $35; priced for quick sale, Y. E. SCHMUCKLE, OR. 7-8035. A

HOUSETRAILER, 1953 Kozy Corch, 37′, 1-bedroom, modern, like new, $3800; TRUCK, Studebaker ½ ton pickup, 1949, very clean, radio, heater, spotlight, signal lights, fully equipped for towing housetrailer, $550; housetrailer and truck together, $4000, RICHARD M. SORENSON, EX. 6-0532. A

MOTORCYCLE, English lightweight, 1952, 200 cc. Excelsior, 60 m.p.h., 100 miles per gallon, 8 h.p. Villiers engine, good condition, original price $425, resale $250, BUD WRIGHT, JE. 1339. A

HOUSETRAILER, 24′ Ace, eastern built, butane, electric refrigeration, electric brakes, very good condition; two 5:00 x 15 racing TIRES and WHEELS, like new, complete Ford hydraulic conversion kit, dropped and spread front axle, all like new, assembled for racing, A. D. ADAMS. OSborne 6-1696. A

FREEZER, 18½ cubic foot Manitowoc, 2 years old, excellent condition, cost $640 new, make offer, E. W. D'ATRI, FR. 5-6451. A

OLDSMOBILE, 1954 Super 88 4-door sedan, radio, heater, w/w tires, power brakes, power steering, 4-way power seat, royal marine with white top, $3250, will take older car in trade, D. O. TROUT, AT. 2-1834 after 5:30 p.m.

WASHING MACHINE, for baby washing, fair condition, $15, ANN DIMMICK. Reply in writing to Northrop News, Box 2627. A

REFRIGERATOR, Servel 1946 model, apartment size, in very good condition, $70, LOIS M. TRAUTMAN, OR. 2-8610. A

CHRYSLER Windsor 1947 club coupe, radio, heater, fluid drive, excellent condition, $325 cash or terms, THURLOW BEIREIS, FRontier 9-1837. A

CHINCHILLAS, 3 pair, $1000, J. RANZENBERGER, DAvenport 6-1110, after 6 p.m.

GAS RANGE, apartment size, 4-burner, automatic oven control, $20, K. SLOAN. Reply in writing to Northrop News, Box 2623. A

TRAILER—2-wheel steel bed and frame, new rubber, large size bed, suitable for cross country, good balance, $275, MARCELLA GLIDDON. Reply in writing to Northrop News, Box 2622. A

TRAILER HITCH, Uneek, no welding necessary, bolts on frame of car, shifts weight from rear springs to midpoint of car, cost 6 months ago $68.88, $45. RAYMOND S. COLE, PL 2-1691. A

TELEVISION, 12" Westinghouse, very fine texture of wood in cabinet, with doors, $50, W. C. DOANE, PL. 4-6559.

MOTOR SCOOTER, 1952 Allstate, excellent condition, new tires, brakes, and carburetor, 45 miles per gallon, $75, ALLEN L. FRANCOM. Reply in writing to Northrop News, Box 2621. A

ELECTRIC STOVE, 3½ years old, Frigidaire, just like new, $60, JAMES B. McMANUS, MEnlo 9-5764. A

CHRYSLER 1941 coupe, good rubber, engine, brakes, radio, heater, automatic shift, $125, D. H. DAVIS, OR. 2-6792. A

SOFA and matching CHAIR, beige tapestry, good condition, $45, JOHN G. HOFFACKER, ORchard 1-4104. A

CHEVROLET, '49 4-door deluxe sedan, radio, heater, seat covers, two-tone, fog lights, one owner, 53,600 miles by elderly couple, $775, B. J. DURBIN, ME. 4-1707. A

GAS RANGE, Tappan, glass oven door, chrome lined, divided burners, automatic timer control, excellent condition, $75, M. K. HURD, FR. 2-7737. A

HOUSE, 3-bedroom, insulated, venetian blinds, redwood fenced back yard, garage, 10 minutes from Northrop, $7050, with $1250 down, balance $64.50 per month, H. P. HILTON, MEnlo 4-8432. A

BABY WALKER, Taylor Tot in good condition, $5, ROGER DYE, LA. 0736. A

DODGE, 1950 4-door, Gyro-Matic, radio, seat covers, like new tires, mechanically perfect, very clean, $800, WILLIAM L. BROWN, OX. 3-3197. A

BUICK, 1941, good tires, engine in fair condition, make offer. E. BITTNER, MEnlo 4-0364. A

HOUSETRAILER, large modern Terra-Cruiser, built in 1953, 35′, tandem wheels, electric brakes, 12′ living room, sectional furniture, venetian blinds and drapes, full-sized stove, glass door in oven, 7.5′ refrigerator, etc., DONALD INGALLS, OSborne 5-1821. A

MORRIS MINOR, 1950, excellent condition, 28.7 miles per gallon, forced to sell, $390, J. DARATA. Reply in writing to Northrop News, Box 2619. A

FOR SALE

CHEVROLET, 1949 convertible, white side wall tires, radio, heater, green and cream interior, clean and in excellent condition throughout, $875, NO. 1-4272.

GOLF CART, Kolapsi Kart, 14" wire wheels, $25, LARRY LAUER, FR. 4-4140. A

HOUSE, walk to work, nice two bedroom, newly decorated, vacant, large fenced rear yard, nicely landscaped, will consider renting, $8750—down payment $1900, flexible, RALPH POWELL, AX. 1-0558. A

LAWN MOWER, $10; COFFEE TABLE, $15; Oriental RUG, (10x15), $280; DINING TABLE and 6 chairs, $35; BEDROOM SET. $50, C. SENGIR, PL. 6-3737. A

LOT, 62½′ x 220′ in Compton, horses, chickens, etc., can be raised, convenient location, $2900, or make offer, LYNN BRUNSON, NEwmark 5-2490 after 5:30 p.m. A

AMPLIFIER, phonograph, 10 watt push-pull, preamp. for GE pickup, 8" Jensen speaker, first $25 takes all, M. L. LESSER, PL. 5-3954. A

PIANO, upright Kimball, mahogany, good practice piano, make offer, GEORGE W. SCHMITT, MEnlo 9-5364. A

TELEVISION, 12½" console, Hallicrafter, $30, R. L. MUNGER, OS. 6-0813. A

RIFLE, 30-30 Marlin; .22 Remington Fieldmaster; Gibson Spanish GUITAR in hard case; all in excellent condition, THOMAS E. MILLER. Reply in writing to Northrop News, Box 2649. A

BINOCULARS, slightly used, 6x30, with case, $52 value, sell for $25, BRUNO ZURAWSKI, REpublic 3-5313. A

WIRE RECORDER, Sears, perfect condition, cash, $95, L. KIRK. Reply in writing to Northrop News, Box 2650. A

TELEVISION, 24" console with remote control 3-D foot cable, original cost $423—without remote control, sacrifice complete for $125, cash, DON CLARK, FRontier 2-9401. A

RANGE, Western Holly. $40; Occidental RANGE, $15; Thor wringer type WASHER, $20, JANE KEALEY, FA. 8-5730. A

PLYMOUTH, '39, rebuilt engine, 20,000 miles, turn indicators, sealed beam headlights, new battery, good paint, good transportation, '54 license, $110, M. R. ANDERSON, NE. 2-9709. A

DINING ROOM SET, 5 piece maple, $60; blonde baby CRIB, $10; STROLLER, $1; 2 cycle, 3 h.p. gasoline engine, $50, DON L. KIRKSEY, MEnlo 4-2280. A

STUDEBAKER, 1950 convertible, overdrive, radio, heater, new top, 4 new white sidewalls, complete engine overhaul 3500 miles ago, $925, ROBERT K. ASKEW, AX. 1-4696. A

FISHING EQUIPMENT, 6-0 Penn fishing reel, with 2 sets of good fishing lines, reel used only once, $25, JOHN PAWLICKI, DA. 6-1625. A

DODGE, '47 custom club coupe, like new, only 46,500 miles, $350 plus four $44.24 payments, CHAS. MARTZ, FRontier 2-3827. A

DOG, red Doberman, male, 7 months, ears trimmed, permanent shots, good with children, $25, JOSEPH A. KAISER. Reply in writing to Northrop News, Box 2644. A

HUDSON, 1948 Commodore "8", radio and heater, just overhauled, new brakes, take over payments $51.30, balance $430, P. J. HOWARD, MEtcalf 3-2634. A

FORD convertible, 1953, tomato red, w/w tires, Fordomatic, tinted glass, radio, heater and many more accessories, 9000 miles, all inside city, will accept a reasonable trade on older car, $2250, including full coverage insurance, WILLIAM B. ENGLISH, RE. 1-1328. A

FORD, 1953 Fordor sedan, 10,000 miles, fully equipped, $1750, E. J. MOORE, FRontier 2-7641. A

SURF SKIFF, 12′, 5 h.p. outboard motor and steel trailer, complete, $175, W. B. NETTLE, OR. 1-3440. A

WOODSHAPER, table model with 1 h.p. motor; SWING SAW with ¾ h.p. motor, perfect condition, bargain, A. E. CAVALLA, MEnlo 4-8586 after 5 p.m. A

FREEZER, 20 cubic foot International Harvester, like new, safety lock and cold alarm, original cost, $700, $200 equity—$200 balance, E. L. BOASE, PL. 4-1334. A

FORD, 1929 pick-up truck, 1954 tabs, $60; pre-war Frigidaire REFRIGERATOR, good condition, $50, W. A. LEVENS. Reply in writing to Northrop News, Box 2645. A

VELOCITY MICROPHONE, Electro-Voice, 500 ohms impedance, model V2A, list $46, like new with 25′ cord and connector, make offer, ALVIN B. KAUFMAN, OR. 8-3580. A

HOUSE, clean 2-bedroom 3½ years old, 11-year contract, low down payment, $6000, E. A. HUBACEK, MEnlo 9-2344. A

HOUSE, Palmdale, Quartz Hill, 7′ refrigerator, table top range, 40 gallon electric water heater, tile shower, lot 154′ front 150′ deep, 4 miles to Northrop, call OSborne 6-8290. A

FOR SALE

SLIDE RULE, duplex deci-trig, $20; KODAK, postcard size, $10; KODAK, German Retina, 35mm, $50; TELEPHOTO LENS, German Steinheil, 2.8 36mm with black and white filter attachment, $35; SUN LAMP, $15, antique FURNITURE and china CLOCKS, ARizona 7-0359. A

NASH Statesman, 1950, 4-door, unusually clean, one owner, $150 down, FLOYD IDEAL, OR. 8-8788. A

WEDDING DRESS and VEIL, ballerina length, $50, FR. 4-6578 days. A

ICE FIGURE SKATES, ladies', white, size 6, like new, $10, W. S. DUNCAN. Reply in writing to Northrop News, Box 2647.

HOUSETRAILER, 1949 Airstream 20′, excellent condition, new interior, EXbrook 9-0487. A

FISHING BOAT, 24′, Ford Jeep engine with Star Marine conversion, 5 scoop bait tank, 1 bunk and head, $750, MARY JANE McGAFFIN. Reply in writing to Northrop News, Box 2648. A

WASHER and DISHWASHER, semi-automatic Thor combination, $35, automatic WASHERS, $20 and up, FR. 2-4474. A

KROEHLER DAVENPORT, CHAIR and END TABLE, $35; Easy Spin-Dry WASHER, excellent, $30, LARRY PUGSLEY. Reply in writing to Northrop News, Box 2611.

RANGE, Wedgewood table top 4-burner, griddle, Grayson clock controlled oven, white, excellent condition, $95, C. F. MATHEWS, OR. 2-2481. A

FLOOR SCRUBBER - WAXER - POLISHER, Electrolux, complete with 2 sets of brushes and buffing tool that fit directly to Electrolux vacuum cleaner, complete with wall rack to support all parts, $15, L. A. OHLINGER, OR. 4-6411. A

HILLMAN MINX, 1952 convertible, 12,000 miles, fine condition, white with black top, $795, RICHARD AGGEN, ME. 9-2734. A

RANGE, gas; ¾ size rollaway BED and innerspring mattress; BABY CRIB; STROLLER; CAR BED; CAR SEAT; DESK; END TABLE; PAINTS; LAWN SPRINKLER and other items, C. A. DAVIDSON, AX. 3-0644. A

LOTS, 2 near Big Bear Pines Club, total size 50′x100′, small cabin on one lot, water and electricity at street, wooded and level, 5 miles from Big Bear lake, $1100, R. F. CARLSON, VE. 8-9422. A

CHEVROLET, '39 tudor, good tires, heater, '48 engine, $25; BABY TENDA, extended legs, clamp-on baby car seat, BILL WILLIS. Reply in writing to Northrop News, Box 2661. A

KILN, Dickenson electric, used about six times, $85, MARTHA E. PATTON. Reply in writing to Northrop News, Box 2659. A

FORD, 1947 tudor, 5 good tires, new engine, good transportation car, good brakes, heater, $350, RONALD MARINEAU, PLeasant 2-6265. A

CADILLAC, 1950 convertible, very good condition, 33,000 miles, cream with black top, Hydra-Matic, and all extras, $2300—$1000 cash, finance the balance, GEORGE F. BOSSE, L. B. 399784. A

SILVERWARE, service for 6, like new, $12.50 or best offer, PLeasant 1-1411. A

RIFLE, Mauser 8mm, model 98, sporter stock, recoil pad, perfect condition, $50, call DUnkirk 4-4017 after 5 p.m. A

PUPPY, cocker spaniel, black, male, AKC registered, champion stock, show prospect or excellent pet for children, free pedigree included, $25, LYcoming 8-4454 (Ontario). A

TV, 12½" blond Zenith console, good working condition; COFFEE TABLE, walnut, with place for glasses in one end, glasses included, $8; FLOOR LAMP, good condition, with 3-way reflector, $3; beige BED-DIVAN, and CHAIR, comfortable to sleep on, reasonable, L. E. MERRITT, NE. 5-1474. A

STOVE, kitchen high top, very good condition, $20, MAX STERN, MEnlo 4-6748.

TIRES, 7:10x15 black wall, practically new; Sunbeam electric RAZOR, slightly used, will sell cheap, MEnlo 9-2652. A

HARMONICA, chromatic, 4 octave, Hohner 64, with case, $11.50; camera TRIPOD, 4′ extension, $3.75, JIM HARRIS, OSborne 6-9234. A

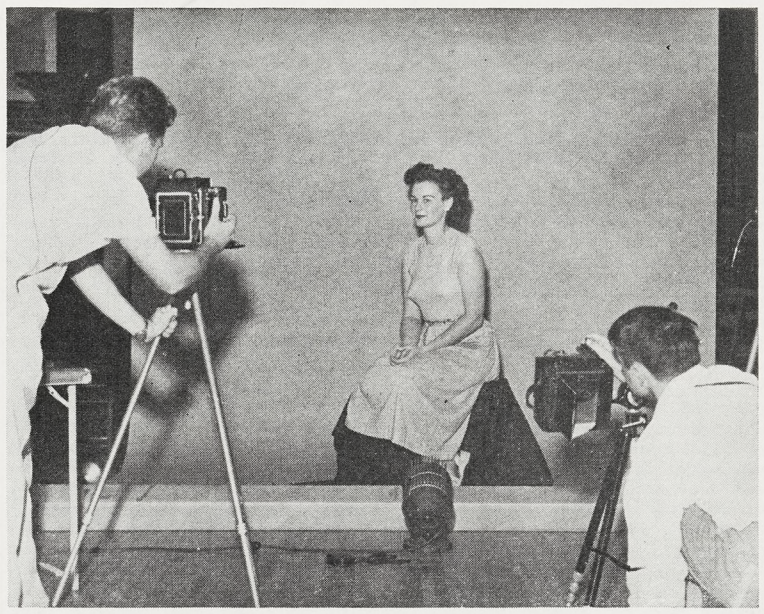
SUIT, lady's size 40-42, black 100% virgin wool, silk-lined jacket, was $70, will sell for $30, R. C. SMITH, FR. 2-8297. A

PONTIAC, 1952 4-door, Hydra-Matic, radio, heater, 19,000 miles, $1495; CHEVROLET, 1954 4-door, Powerglide, radio, heater, tinted glass, two-tone, 1400 miles, $2195, J. C. HYLTON, FR. 5-6406. A

BOAT, 12′ flat bottom marine plywood, excellent condition, also car top carrier, easy and quick for one man to load, both for $80, VIRGIL TJULANDER, NEwmark 5-8337. A

HOUSE, 3-bedroom, finest residential district of Anaheim, two years old, excellent condition, 18x22 living room, split brick fireplace, patio porch adjoining, landscaped, 55x127 lot completely fenced, $2200 down—balance $9400—4% G.I. loan, $67.50 monthly payments include insurance and taxes, LEO J. GARY, KEystone 5-5514 (Anaheim). A

Black and White Magic



BEAUTY AND THE CAMERAMEN—. Model Elizabeth Roggy poses prettily for NRC Camera Club members left, John Slack, Production Planning, and Harvey Heaverlo, Experimental Flight Test. In addition to the popular "model nights" held by the club, activities include field trips, print competitions, and lectures on technical features of photography. Members are invited to use the NRC-provisioned darkroom located in the NRC Clubhouse.

FOR SALE

PAINTER'S RIGGING, DONALD McCULLOCH, ORchard 2-2434. A

WATCHMAKER'S TOOLS, lathe, motor and rheostat, bench, and miscellaneous, best offer, H. LINDSAY. Reply in writing to Northrop News, Box 2653. A

SAXOPHONE, phlegmatic C-melody, two screechy VIOLINS, and one wheezy CORNET, $15, JEAN R. NOVET, OSborne 6-4751. A

HOUSE, 2-bedroom and den, built-in bookshelves, children's room furnished if desired, Pullman bath, 6x10 redwood playhouse, double garage, enclosed patio, fireplace and barbecue, newly landscaped and decorated, three years old, $14,500—$2500 down, G.I. 4% loan, M. KELLIHER, ME. 4-8514. A

RIFLE, Savage model 99, caliber 250/-3000, custom-fitted, Whiteline recoil pad, sourdough goldbead front sight, Redfield receiver, rear sight with hunter knobs, plastic carrying case and three boxes of cartridges, shot 12 times, never been carried in brush, like new condition, $100, LEON G. MacDONALD, STate 0-8023. A

AQUARIUM, 10-gallon stainless steel, with stand, complete with pump, heater, filter, light, plants, and fish, reasonable, E. M. SKINNER, AX. 1-3882. A

ACCORDION; PIANO, upright; antique BED-DIVAN, solid walnut, hand carved; LIBRARY TABLE; Hawaiian steel GUITAR and amplifier, slightly used; JAPANESE ARTICLES—DINNER SET, like new, Naritake, 93 pieces; embroidered ROBE, PAJAMA SETS, cultured PEARLS for earrings, rings, pins, etc., Satsuma pottery VASES, call ORchard 2-3201. A

OLDSMOBILE, 1947 two door, Hydra-Matic, radio and heater, $200, fair condition, good upholstery and tires, any offer acceptable within reason, EMIL CONATSER, OS. 6-9167. A

MUSHROOM SPAWN, value $50, and powdered force fertilizer, will plant 100 square feet with possible crop of 2 pounds per square foot, book on mushroom culture, $25 for all, JOHN K. DAWSON, MEnlo 4-7762. A

DINETTE SET, chrome, like new, oval table and extension leaf with grey formica top, four contrasting green chairs with foam rubber seats and backs, cost $90, asking $50. CHERIE HAMMON, PL. 4-6088 or PL. 8-8114. A

PACKARD Deluxe Clipper, 1953, two-tone, 7 months old, radio, heater, wheel discs, visor, very fine condition, must sell, can offer wonderful deal, original price, $3680, offered for $2200. W. O. ALLEN. Reply in writing to Northrop News, Box 2617. A

WANTED TO BUY

BARBELL and DUMBELL set, must be reasonable. PLymouth 5-2188. B

TIRES, two whitewalls, size 6:00x16, in good condition. Call OS 6-9578, reasonably priced. B

FRUIT JARS, 2-quart (½ gallon) for canning. GEO L. HALLMARK, OS 6-5328.

SPINNING LATHE, square SHEARS and DRILL PRESS. H. E. HARWOOD, OR 8-6444. B

BABY CRIB with mattress, and PLAY PEN. WM. RABORG, TOpaz 9-0068. B

MACHINIST TOOL BOX, Kennedy, must be reasonable, [illegible] without tools, also will buy salt water fishing pole, prefer glass rod. JOE REED, DAvenport 6-5558. B

WANTED TO BUY

BABY CRIB, will pay any reasonable price. R.R. FITZGERALD. Reply in writing to Northrop News, Box 2601. B

OARS, one pair for 16′ motor boat, condition need not be first class, used for launching and docking only. RAY GRISH, FR 2-4673. B

FORD '39 panel body, no engine or battery required. L. R. MARTIN, OS 5-5388. B

DUAL MANIFOLD for Hudson, 1948 to '53, 6 cylinder. I. R. PEOPLES, TO 4-5536.

BABY BED and mattress, reasonable. DON KERNS. Reply in writing to Northrop News, Box 2608. B

MOTORCYCLE, lightweight, 250 to 350 cc, 4-cycle, in reasonable condition, must have complete lighting system, will pay $200 to $250 cash for clean machine, J. DUBISSON. Reply in writing to Northrop News, Box 2625. B

BOAT, 2-man rubber life raft or equivalent, OR. 2-8468. B

BUNK BED, used maple, complete, price must be reasonable, call OSborne 6-6566. B

LAWN UMBRELLA, tiltable pole type, call OSborne 6-1786. B

GAS STOVE, M. CHARLTON. Reply in writing to Northrop News, Box 2624. B

RECORD CABINET, L. ABRAMS, WE. 1-8478. B

HOUSE, I will pay $250 for your equity in a two or three bedroom house that is within 3 miles of Northrop, cash payment, MARGUERITE M. BROWN, OSborne 5-3931. B

BINOCULARS, 7x50 Bausch and Lomb, in good condition, DEAN ZES, OS. 5-6422. B

CAR, 1947 or '48 club coupe, Ford or Chevrolet, clean, cash, DOROTHY ADKISON, NE. 2-8429. B

DESK, for living room, will consider anything within reason if it suits, call JOHN NAPPIER, FR. 4-2933. B

STUDEBAKER, '47 or '48, please call OR. 1-1133. B

WHEELBARROW, metal, garden type, with pneumatic tires, also metal CLOTHES POLES, E. JAMESON, El Segundo 2014W. B

DRILL, ¼" Black & Decker, or comparable brand; combination TV and RECORD PLAYER; BOOKCASE; DESK, kneehole, 7-drawer, blond, PLeasant 1-1411. B

BUNK BEDS, M. H. DAZEY. Reply in writing to Northrop News, Box 2657. B

RADIO, RCA or Zenith transoceanic portable, reasonable, JIM HARRIS, OSborne 6-9234. B

FORD, '50 or '51 coupe or tudor, in good condition, reasonable, E. CHEVEDDEN. Reply in writing to Northrop News, Box 2655. B

UMBRELLA TENT, to sleep four, also camp lanterns, BILL WILLIS. Reply in writing to Northrop News, Box 2651. B

WRENCH, torque, Snap-On, ½" drive, 0 to 150 ft. lbs. LARRY LAUER, FR. 4-4140. B

FOR TRADE

HOUSE, 2-bedroom, 6 years old, in good residential section in Santa Ana, will trade for house or lot in Palos Verdes. WALTER C. BERRY, Frontier 5-7349. C

BOAT, 16′ Div. II Hydroplane, Ford V8 block, steel trailer, trade for fishing tackle, guns, or jeep, sell on terms. F. M. ROSENSTIEL, NEwmark 2-7610. C

(Continued on Page 10)

BBSF Classifieds

(Continued from Page 9)

FOR TRADE

LOT, Green Valley Lake, with water share, will trade for housetrailer. DOROTHY LEWIS, OR 7-8339. C

HOUSE, 2-bedroom, two years old, hardwood floors, complete with furnishings, landscaped, will trade equity for 35′ house trailer or larger, VELLA G. GIBSON. Reply in writing to Northrop News, Box 2642. C

FUR COAT, size 12, like new, value $250, will trade for gun, outboard motor, or camping equipment, L. J. OSTROM, MEnlo 4-6003. C

EXPOSURE METER, Norwood Director photoelectric with Eveready leather case, cost $36, trade for 18′ or 20′x8′ trailer awning or 8:00 x 16 full white side wall tires, will pay cash difference, R. C. CROSLEY. Reply in writing to Northrop News, Box 2656. C

CHEVROLET, 1940 two-door, radio and heater, good transportation, for part payment on 12′ to 16′ housetrailer, E. SPEICH, ORchard 7-4163. C

FOR SALE OR TRADE

OLDSMOBILE, '88, 1950, black and white, radio, heater, backup lights, $995 or trade for later model Mercury or Ford. JOHN G. PODHORSKY, FR 2-5598. M

PLYMOUTH, '47 2-door, special deluxe, radio, heater, directional lights, new paint, needs minor body work, $300 or trade for '50-'51 Chevrolet convertible and pay difference. DON GALVIN, L.B. 700-610 evenings. M

TELESCOPING GAUGES for 18″ scale, broken down in 100ths with a square head, bought gauges new for $32.50 last year, used only couple times. CLAUS J. BRUEMMER, JR. Reply in writing to Northrop News, Box 2664. M

FORD 1930 coupe, 4000 miles on completely rebuilt engine, 16″ wheels, 1925 "T" roadster body; RADIATOR and set of HYDRAULIC BRAKES for 1941 Lincoln Zephyr, will sell or trade for anything of value such as guns, cameras, 2-wheel trailer, etc. WALTER C. BERRY, FRontier 5-7349. M

KITTENS, Silver Persian, 13 weeks old, pedigreed and registered, sell for $25 or will trade for Pekinese pup, or something of equal value. CLARENCE S. TAYLOR, TOrrey 4-3646. M

LOT, Rolling Hills, 1.2 acres, ocean view, $5000 cash or trade as down payment on house, duplex or ? H. H. DOSSETT, ORchard 4-1739 M

FORD, 1930 Model "A," $45, will take camping equipment, guns or what have you. DONALD NORTH, OR 7-3222. M

MOTORCYCLE, 1953 Moto-Guzzi, 30:50 cu. in., $525, or trade for good car. DONALD KELLY, RI 7-3953. M

WASHING MACHINE, General Electric, wringer type, good condition, approximately 4 years old, used 3 years, $35 or trade, L. O. COLEY, MEnlo 9-3330. M

BOAT, Columbia River double-ender, ice 2 ton, well equipped for albacore and mackerel, 2-way radio, 8-scoop tank, sell or trade for equal value, price reasonable, HENRY ARNOLD, OS. 5-2672 days or OR. 7-6296 nights. M

SMALL CAR, incomplete, approximately 6′ long and powered with a 1½ h.p. gasoline engine, trade for racing bike or sell, F. M. ROSENSTIEL, NEwmark 2-7610. M

FORD, 1953 convertible, completely equipped, exceptional condition, trade for older car or sell outright for low cash price, make offer, H. W. JACKSON, FRontier 7-1074. M

TABLE SAW, 8″ tilting arbor, Timberline, aluminum metal base on casters, 1 h.p. motor, safety switch, 2 mitre gauges, dado blades, excellent condition, $195—terms if desired or will trade for upright freezer, 15′ to 18′, WILL PICQUELLE, LAmbert 5-2767 (Fullerton). M

BOAT, commercial, plywood, 6 ton hold refrigerated, gas powered, 400 gallon capacity, 33′ x 12′ beam, head, galley, $2500, will take car or property as part payment, WALTER MILLER. Reply in writing to Northrop News, Box 2638. M

DODGE, 1953 ½ ton pickup, fluid drive, three speeds, deluxe cab, radio, heater, low mileage, A-1 condition, will trade equity for a good '47 or '48 Chevrolet or Ford, PAUL J. TELLES, JR. Reply in writing to Northrop News, Box 2639. M

MORETTE, 1946 3-wheel small car, 1 cylinder, 2-wheel brakes, aluminum body, '54 plates, electric starter, generator, battery, $90 or consider trade, RALPH W. GUNTHER, OS. 6-0413. M

PISTOL, 22 Colt automatic, like new, "Match Target", 7″ barrel, $65 cash or trade for reel type power mower, W. GENCO, OR. 7-0785 after 4 p.m. M

FORD, 1929 pick-up truck, will trade for camping equipment, air compressor or what have you, W. A. LEVENS. Reply in writing to Northrop News, Box 2646.

ROADSTER for track racing, complete except engine, hydraulic brakes, in and out transmission, slicks '24 T body perfectly, $135 full price or will trade for '41 or '42 model car in good condition, LELAND SPEAKS, FR. 4-8811. M

FOR SALE OR TRADE

CADILLAC, 1950 convertible, extras, will trade equity for clean '49 or '50 Ford, Mercury, or Chrysler, J. H. SOUTHWORTH, PL. 1-8919. M

PLASTIC LAMINATING MACHINE and supplies, professional model Warner, hobby or business, supply of plastic sheets from .010 to ¼ inch and trimmer, plates, etc., used 2 months, $200, sell or trade for what have you? M. R. ANDERSON, NEwmark 2-9709. M

MOTORCYCLE, 1942 H-D "45", completely overhauled, rebored with new rods, crankshaft, valves and bearings; will take camping equipment as part payment, or will consider pickup truck of equal value, $225, M. C. FRANTZ. Reply in writing to Northrop News, Box 2660. M

OUTBOARD MOTOR, 1953 Evinrude 25 h.p., 20 hours, extra screw parts, 1954 Lido Glasspar BOAT, all extras; deluxe Teenee BOAT TRAILER, electric BAIT TANK, extra gas tank, complete value $1343.23, make offer; or want housetrailer, 18′ to 21′, metal, BILL NEWMAN, OS. 6-4841 mornings. M

MOTORCYCLE, Harley Davidson 61, full dress, motor completely overhauled A-1 condition, $150 cash, or trade for good transportation car, C. E. DONALDSON, OS. 6-6360. M

PONTIAC, 1954, 2-door Chieftain, 1000 miles, will trade equity for older model car. WAYNE STUCKEY. Reply in writing to Northrop News, Box 2633. A

FREE (To be given away)

KITTENS, male Siamese and 1 female calico, JEAN R. NOVET, OSborne 6-4751.

KITTENS, free to good homes, NEVA SCHULTZ, NEwmark 5-1147. D

DOG, 14 months old Beagle, male, registered AKC, to good home. ERNEST H. LePROHON. Reply in writing to Northrop News, Box 2620. D

SOIL, sandy top soil. Reply in writing to Northrop News, Box 2643. D

FIRE WOOD, one load. MICKEY O'BRIEN, OSborne 6-7733. D

RENTALS OFFERED

APARTMENTS, like new, furnished and unfurnished, walking distance, $65 and up. MARTHA LAMOUREUX, OS 5-6183.

HOUSE, 1-bedroom, unfurnished, utilities paid, no yard work, couples only, no pets, $63.50. VICTOR EASTON. Reply in writing to Northrop News, Box 2610. E

APARTMENT, two bedroom, unfurnished, newly decorated. S. E. GIBBENS, PLymouth 4-0340. E

HOUSE, two-room, furnished, ideal for bachelor or young couple, utilities paid, 2 miles from Northrop, $60 per month. R. E. LAGRAND. Reply in writing to Northrop News, Box 2662. E

ROOM, semi-private, three blocks from plant, private entrance, clean throughout and modern furniture, $8 per week. DAVID J. HADDAD, OS 6-9567.

APARTMENT, one-bedroom, unfurnished, garage and service porch, year old, duplex, located in North Inglewood, prefer young couple, $65. SHIRLEY JOHNSON, OR 7-6655. E

DOUBLES, 2 bedrooms each, one or two children welcome, close to aircraft plants and school, garbage disposal, service porch, dining room area, TV outlet, garage, $100 each. EARLINE HALLMARK, OS 6-1748. E

BOARD and ROOM, private rooms, adjoining bath, lunches packed, attractive single or double rooms, good food, men, $18 and $20 week. FRontier 4-4215.

ROOM, gentleman, day worker preferred, $7 per week. R. J. VASELEW, PLeasant 2-1152. E

APARTMENT, 1-bedroom, unfurnished, garage, disposal, 1 block from Northrop, $70 per month. BETTE FREY, PL 8-3730.

HOUSE, 3-bedroom, in Torrance, fireplace, separate dining room, double garage and concrete block fence, $110 month unfurnished, $120 month furnished. HUGH M. BENSON, FRontier 5-5664. E

ROOMS, modern kitchen and bath, everything furnished, 2 miles from Plant One, ½ block from car and bus line, $10 per week. KENNETH K. KENNEDY, OR. 7-0937. E

APARTMENT, for men, large, furnished, will accommodate 4 or 5, kitchen, separate entrance, patio. Reply in writing to Northrop News, Box 2631. E

SHARE HOME, 1 or 2 girls to share new home nicely furnished, close to Northrop, $50, JOY CLARK, ME. 9-3685. E

HOUSE, furnished small house in rear, breakfast nook, kitchen and living room combined, one large bedroom, two small bedrooms all utilities paid, no garage, one or two children under five years of age accepted, $70 per month, vicinity of Lennox-107th and Doty, BILLY J. LEWIS. Reply in writing to Northrop News, Box 2628. E

TRAILER, 18′, sleeps two, complete with stove, ice box and heater, utilities paid, near Northrop, $10 per week, E. L. MURPHY, PL. 5-0641. E

NRC ACTIVITIES GROWING

VARIED PROGRAMS REACH NEW SUMMER HEIGHTS

Hot weather has served only to increase NRC activities in the past few weeks, and the tempo of the recreation program continues high. There follows only a sampling of the varied diversions open to all Norcrafters via NRC organized activities.

Bible Study

One of the many varied NRC activities is the Bible Study organization, where groups meet daily during lunch.

Two such groups meet on the mezzanine, Conference Room M-1 and 1B, Plant Two, during the 12:00 to 12:45 lunch period.

Mike Sivulka is in charge of one group now studying the New Testament, and the Epistle to the Hebrews.

The second group, under Roy Stahl, has Paul's letter to the Romans as chief topic of discussion.

Study in all groups has been confined to the Bible and controversial discussions are avoided.

Boat Club

Next meeting of the NRC Boat Club will feature the movies and slides taken on the July 4 cruise to Catalina.

Meeting will start at 8 p.m. on August 2 at the NRC Clubhouse. Narration for the show will be by Harold Dawson, Club member.

Plans are underway for the next big cruise to Catalina on Labor Day. Elmer Chiodo, Club comish, recommends that all boat owners register early for this event.

Bowling

Winter leagues for bowlers are now being formed, and Jean Ward and Harold Guess, day-shift bowling commissioners for the clubs, have announced that entry blanks are available at Personnel Activities and Services offices, Plants One and Three, and that deadline for entries will be August 13, 1954.

Ballet

Newest innovation for the Ladies Ballet classes is the division of the day shift class into two categories—one for beginners and another for advanced pupils.

The day shift classes recently attended the opening night of the New York City Ballet at the Greek Theatre. The ladies were accompanied by Donald Journeaux, ballet instructor.

Flower Club

The next meeting of the Flower Club—August 10 at 7:30 p.m. in the NRC Clubhouse—will feature a movie, "Making the Most of a Miracle", presented by Gaviota products.

The movie presents treatment of plants, planting, feeding, general gardening, and care of shrubs and trees. Everyone is invited.

Gem and Mineral Club

Guest speaker at the July 28 conclave of the Gem and Mineral Club will be George A. Wardner, Black Light Corporation of Los Angeles. Meeting starts at 7:30 p.m. in the NRC Clubhouse.

Subject of the talk will be the identification of different metal-bearing rocks.

Additional attraction will be a large display of fluorescent materials, and an examination of various rocks under black light to determine mineral types and content.

Sports Car Club

The August 12 meeting features films of the 1953 running of the famous Italian "Mille Miglia" (1000-mile race).

Meetings are held in the NRC Clubhouse and will start at 7:30 p.m.

Members are singing the praises of Alan Yeagle, Cost Estimating, who placed high in recent Torrey Pines Road Races with his MGTC; Noble Bishop, Engineering Laboratories, who snatched first place trophy at the Motor Sports Week Concourse d'-Proving Ground Trials with his TR2 Triumph against over a hundred entries; Cliff Bundy, Schedules and Change Control, for taking second place prize in the Motor Sports Concourse d' Elegance; and Don Miller, who placed fifth out of a hundred top contenders in the Gymkhana.

Square Dance Club

A Sunday afternoon barbecue in Hawthorne City Park on August 8 headlines Square Dance coming attractions. The NRC is furnishing the food; all club members are invited.

Commissioner Fred Brant also announces that a beginners' group may be started in September. Interested parties are asked to contact PA&S.

RENTALS OFFERED

APARTMENTS, 2-bedroom and 1-bedroom, hardwood floors, like new, tile, garbage disposals, built in TV aerials, garage, 3 blocks from Northrop, OS. 6-8574. E

ROOM, adorable den bedroom, furnished or unfurnished for woman, preferably day worker, new home, 10 minutes from Northrop in Manhattan Beach, lady Norcrafter, and teen daughter, available after August 15, call AUDREY, OR. 7-9137 to 4 p.m. E

HOUSE, 2-bedroom, partly furnished, $45 month, located in Brea, H. D. KOLF, Jasper 9-3071 (Brea). E

ROOM, 1 man, 5 minutes walk to Plant Three, $7 per week, D. D. GRANT, ORegon 8-9701. E

ROOM, private entrance and shower, two blocks from Northrop, $7 per week, H. R. STANLEY, OS. 5-1450. E

ROOM, large pleasant room and bath in new home 20 minutes from Northrop, available August 31. Call FRontier 2-7850 days. E

APARTMENTS, like new, unfurnished 1-bedroom, individual garage, TV antenna, close to Northrop, call FA. 8-1144 after 5 p.m. E

APARTMENT, modern 2-bedroom, private garage with storage, sliding glass doors to private patio, garbage disposal, TV antenna, bathroom heater, aluminum awnings, good closet space, screens, no pets, $85, MAY JOHNSTONE, OS. 6-4981.

APARTMENT, 1-bedroom, unfurnished, large rooms, ample storage, garage, front apartment of triplex, available August 1, $75 per month, B. S. DAVIS, OS. 5-6458. E

HOUSE, 2-bedroom, $65 per month; COTTAGE, 2 rooms and bath, utilities furnished, $41 per month, B. J. MONSON, AR. 2-3744. E

APARTMENT, deluxe 1-bedroom, garbage disposal, garage, beautiful yard, $72.50 available August 1, B. S. RODESCH, PL. 5-2404. E

HOUSE, 2-bedroom, fenced in back yard, water softener, ½ block from school, Lakewood district, EDWARD DENNIS. Reply in writing to Northrop News, Box 2654. E

BACHELOR APARTMENT, in Hawthorne, $35 per month, utilities paid, J. B. WALTER, OS. 6-2621 after 4 p.m. E

BACHELOR APARTMENT, suitable for man, in Hawthorne, $28 per month, utilities paid. J. B. WALTER, OS. 6-2621 after 4 p.m. E

DUPLEX, 1-bedroom, unfurnished, close to Northrop and beach, baby okay, $50, G. H. ANDERSON, OS. 5-2880. E

APARTMENT, 2-bedroom, unfurnished, Downey area, call TOpaz 1-1971. E

APARTMENT, 2-room furnished, with bath, transportation at door to any area, near 120th St. & Aviation, suitable 2 people, adults, $12.50 week. EDNA FULLER, OS. 6-8015 after 4 p.m. E

HOUSE, 3-bedroom, king-size kitchen, 1 year old, asphalt tile floors, panel ray heaters, single attached garage, located in Gardena, 7 miles from plant, $85 per month. F. A. BURGESS. Reply in writing to Northrop News, Box 2663. E

RENTALS WANTED

HOUSE, 2-bedroom, around $65 per month. L. C. LONG. Reply in writing to Northrop News, Box 2618. F

HOUSE, one or two bedroom, Morningside district preferred, elderly couple, no pets, not over $75. G. W. FAILOR, ORchard 1-2413. F

HOUSE, three-bedroom, unfurnished, fenced yard, 2 girls 7 and 8, need by August 1, rent to $80, would like lease. E. L. BOASE. Reply in writing to Northrop News, Box 2615. F

HOUSE or APARTMENT, furnished, have 3 year old child, near Northrop, $50 to $75. JAMES G. LAYMAN, TH 6-9715. F

ROOM and BOARD, garage, vicinity of Hawthorne, gentleman, references if desired, call ME. 9-2346. F

RENTALS WANTED

HOUSE, 2-bedroom, fenced backyard, no pets, young couple with small child, prefer Hawthorne-Inglewood area, will pay to $80, MILLIE PREWITT, OR. 2-0824 after 5 p.m. F

HOUSE, apartment or trailer, furnished, 1 adult, 2 children over 10 years old, by August 1, not over $65, MYRTLE LITTMAN, OS. 6-5931. F

HOUSE, 4-bedroom, or 3-bedroom and den, would like 2 baths, have 2 school age children, can give good reference, will consider lease, will pay up to and including $110, M. K. HURD, FR. 2-7737.

APARTMENT, three room, furnished, in vicinity of Northrop, THOMAS B. O'DELL, LO. 5-5296. F

HOUSE, APARTMENT or DUPLEX, furnished, 2-bedroom, beach area preferred, GAYLORD ANDERSON. Reply in writing to Northrop News, Box 2658. F

APARTMENT for single woman, in or near Inglewood, to $60, MILDRED SUTHERLAND, RE. 7613. F

CHILD CARE OFFERED

TODDLERS' HAVEN—licensed, ages 2 to 10 good food, fenced play yard, naps if desired, and snacks, for further information call OSborne 6-6566. G

CHILD CARE, my home, 5-day week, $10 one child, $16 two children, $25 three children, large fenced yard, balanced, wholesome meals, R. M. RAMSAUR. Reply in writing to Northrop News, Box 2634. G

BABY SITTING, in your home, have own transportation, day or night, will also do ironing if desired, OS. 6-5449. G

SUNRISE DAY NURSERY—licensed, ages 2 to 10, days, swing shift, fenced play yard, hot lunches, snacks and naps, close to all aircraft plants, register now for school vacation, for further information call OSborne 6-1786. G

CHILD CARE OFFERED

CHILD CARE, fenced yard, swings, day or night, K. M. PYOTT, MEnlo 9-2354. G

CHILD CARE, licensed home, ages 2 to 10 years, breakfast, lunch and snacks provided, fenced yard with gym set, $12 for five days, MRS. PATRICIA C. HOSE, OS. 5-4998. G

CHILD CARE WANTED

CHILD CARE, woman to care for 2 children, girls—10 months and six years old, from 7:00 a.m. to 4:30 p.m., five days a week in my home, DOROTHY LOOMIS. Reply in writing to Northrop News, Box 2630. H

PERSONALS

PRACTICAL NURSING, hospital-experience, any case, live out, call evenings. PL 4-3554. L

TRANSPORTATION, safe, dependable, inexpensive, to and from destination via five-place twin-engined aircraft. For information contact R. E. PREWITT, ORchard 2-0824 or OSborne 6-4819 after 5 p.m. L

SHARE APARTMENT, girl who works days to share 4-room apartment, ANN DIMMICK. Reply in writing to Northrop News, Box 2626. L

in your way I would like them for canning; will pick up, S. ZIMPRICH, FRontier 5-7538. L

RIDERS, want one or two passengers for southern Minnesota, leaving Saturday, July 31, share expenses, call OR. 4-1067 or TW. 8751. L

HOUSEKEEPER, unencumbered Scandinavian woman wanted for housekeeper and companion for elderly woman, private room in new apartment in Inglewood, automatic washer, $35 per week with meals, non-smoker. Reply in writing to Northrop News, Box 2652. L

SHARE HOME, business lady 35-45, share home with same, private room. AX. 1-0374 after 4:30 p.m.

SPORTS

The Northrop News

N. R. C. Good Time Table

For enrollment or information in activities listed below, call or contact Personnel Activities and Services, Plant One, 2784; Crenshaw, Industrial Relations Office, 2738. NRC Clubhouse is located at 175 N. Hawthorne Blvd.

ART CLUB (day)
Meet at NRC Clubhouse Annex every Thursday evening, 7:30 p.m.

ART CLUB (night)
Meet in NRC Clubhouse Annex every Thursday from 1:00 to 3:00 p.m.

BADMINTON
Ed Sellon, commissioner
Meet every Tuesday, 7:30 p.m. Leuzinger Gym. Beginners welcome.

BOAT CLUB
Elmer Chiodo, commissioner
Meet first Monday of month at NRC Clubhouse. Next meeting August 2, 7:30 p.m.

BOWLING (day)
Harold Guess, commissioner
Summer leagues now in progress. Entry blanks for winter leagues now available at PA&S offices.

BRIDGE CLUB
Walt Darby, acting commissioner
Meet 2nd and 4th Tuesday of month at NRC Clubhouse.

CAMERA CLUB (day)
George Fuller, commissioner
Meet every other Friday evening NRC Clubhouse, 7:30 p.m. Next meeting August 6, Model Night.

CAMERA CLUB (night)
Adam Slusarz, commissioner
Meet every other Saturday evening, NRC Clubhouse. Next meeting August 7, 7:30 p.m.

FENCING CLUB
Ray Beste, commissioner
New group now forming. Meet every Tuesday evening, 8:00 p.m., at Leuzinger High School Girls' Gym.

GARDEN CLUB
Jim Kellogg, commissioner
Meet every Wednesday, 12:15 noon, Plant III Photo Conference Room.

GEM AND MINERAL CLUB
Art Westermann, commissioner
Meet fourth Wednesday of each month at the NRC Clubhouse. Next meeting August 25, 7:30 p.m.

GUN CLUB
Dick Booth, commissioner
Meet every other Tuesday, 7:30 p.m., NRC Clubhouse. Next meeting Aug. 3.

MIXED CHORUS
Ken Schumacher, commissioner
Meet every Wednesday evening at NRC Clubhouse, 7:30 p.m.

MODEL RAILROAD CLUB
John Felder, commissioner
Meet every Thursday evening, 7:30 p.m., 4411 W. Redondo Beach Blvd.

PHILATELIC CLUB
Robert Toffee, commissioner
Philatelic and Numismatic combined club meets 2nd and 4th Monday each month. Next meeting August 9, NRC Clubhouse, 7:30 p.m.

RADIO CLUB
Meet 1st and 3rd Tuesday of each month at NRC Clubhouse Annex, 7:30 p.m. Next meeting August 3.

RIDING CLUB
Cliff Snudden, commissioner
Night ride every other Saturday. Next ride July 31 at 7:00 p.m. Circle Bar Ranch. Call PA&S for reservations before Thursday, July 29.

SALT WATER FISHING (day)
Bill Dean, commissioner
Boats will run Aug. 14, Sept. 4, Fishing license can be acquired at PA&S.

SALT WATER FISHING (night)
Chuck Bija, commissioner
Boats will run Aug. 15 and Set. 5. Fishing license can be acquired at PA&S.

SKEET CLUB
Chuck Allen, commissioner
Meet every other Saturday, Long Beach Gun Club, 10:30 a.m. Next shoot August 7.

SKIN DIVING CLUB
Gordon Grant, commissioner
Meet 3rd Monday of month, NRC Clubhouse, 7:30 p.m.

SOFTBALL (day)
Tom White, commissioner
League play under way Monday, Tuesday and Thursday, Rosecrans Playground; Wednesday and Friday, St. Andrews Playground.

SOFTBALL (night)
Paul Crowley, commissioner
League play in progress daily, Rosecrans Playground; Monday and Tuesday at Sportsman Park.

SPORTS CAR
Doug Hugill, commissioner
Meet second Thursday each month, NRC Clubhouse. Next meeting August 12.

SQUARE DANCING
Fred Brant, commissioner
Meet at Swimms Barn, 15016 Daphne St., Gardena, from 7:00 to 10:00 p.m. Meet 1st, 2nd, 4th and 5th Sundays.

SURF FISHING
Ralph Schamp, commissioner
Meet NRC Clubhouse, 7:30 p.m., 1st Tuesday. Next meeting August 3.

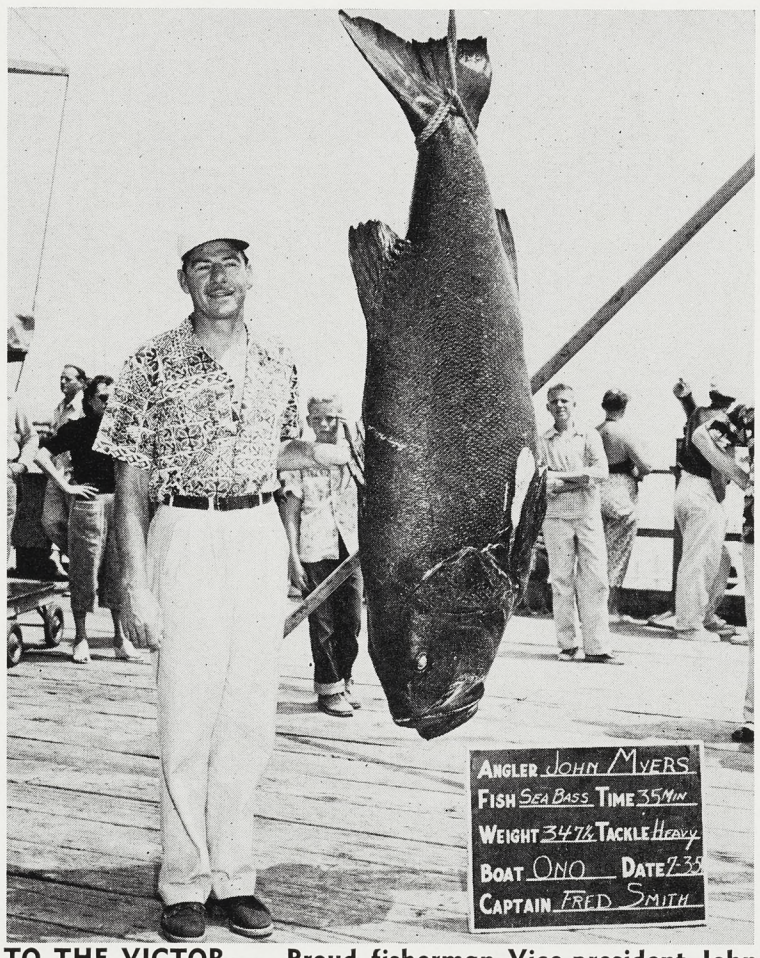
SWIMMING
Leuzinger Gym open Wednesday and Friday afternoon, 4:30-6:30.

TOASTMASTERS 212 (day)
Ernie Boren, representative
Meet every Thursday eve., 6:30 p.m., Western Club, Gardena.

TOASTMASTERS 1398 (night)
Ned Reese, representative
Meet every Thursday, 12:30 p.m., at Bill's Steakhouse on Crenshaw Blvd., just north of Manchester.

TROPICAL FISH CLUB
Orval Coley, commissioner
Meet last Tuesday of month, NRC Clubhouse. Next meeting August 31, 7:30 p.m.

GLIDER EXPERTS IN TRIALS



TO THE VICTOR—. Proud fisherman Vice-president John W. Myers poses beside 347¼ pound sea bass which he landed after a hard fought 35-minute battle. Monster was taken with heavy tackle from the boat Ono on July 3, 1954. Catch makes Myers top contender for the NRC Fishing Club's annual trophy for largest edible fish caught in California.

NRC SKIN DIVERS HELP STAR-MOP; REVEAL PLAN FOR DIVER JAMBOREE

Operation StarMop, held by the Department of Fish and Game on July 25, saw the NRC Skin Diving Club well represented.

Members who aided in the annual operation to rid the breakwater of destructive starfish were Gordon Grant, Club commissioner, Eldon Burgess, John Vronan, Bill Cole, Harry Lewis, George Branch, Joe Green, Bob Skipper, Ted Pratt, Gerald Boser, and Jack Fromm.

The Department of Fish and Game furnished transportation for the divers in the form of three patrol boats. The mop-up started at 10 a.m. from Terminal Island, and many of the skin diving clubs in Southern California participated.

Comish Grant announces that tickets are now on sale in PA&S offices for the forthcoming Skin Divers Jamboree, to be held on opening day, August 15, at the Marineland of the Pacific.

Tickets are $2.50 each for adults and $1.50 for children. Price of ticket includes cost of food and door prize drawing.

EXCLUSIVELY FOR THE LADIES

For information on women's activities listed below, call Dorothy Hodgson, Personnel Activities and Services, 2784.

BALLET
Instruction free at NRC Clubhouse every Thursday.
Day shift—beginning class, 8:30 p.m. advanced class, 7:30 p.m.
Night shift—beginning class, 11 a.m.

BOWLING
Jean Ward, commissioner
League now in progress at Hawthorne Bowl, Tuesday, 6:30 p.m.

DINNER CLUB
Norma Archibald, commissioner
Monthly dinner meetings. Beach party scheduled for August meeting.

GOLF CLUB
Kay Stuart, commissioner
Meet second Tuesday of each month, NRC Clubhouse, 7:30 p.m.

GOLF CLUB
Golf lessons on Tuesdays, 7 p.m., Culver City Golf Course, Jefferson at Sepulveda, for $1.00 plus $.40 for balls. Clubs furnished free. Tournament July 31. Register PA&S.

INTERIOR DECORATION
Lecture - demonstration on Thursdays, NRC Clubhouse, 7:30 p.m. Registration fee $1.50.

KNITTING CLUB
Nina Shannon, commissioner
Meet Tuesday, 7:30 p.m., NRC Clubhouse. Instruction provided free.

SOFTBALL (day) Group I
Donna Avazian, commissioner
League in process at Ladera Park, 6027 Ladera Park Ave., 7. p.m., on Thursday.

Group II
Practicing at Hawthorne City Park, 4:30 p.m., Tuesday and Thursday.

SOFTBALL (night)
Tuesday and Thursday, 11 a.m.-1 p.m. at Ladera Park, 6027 Ladera Park Avenue.

SENIOR GIRL SCOUT TROOP (Mariners)
May Hawkins, representative
Swimming, boating and seamanship. Meet Thursday, 7 p.m., Scout Cabin, 135 Grevillea, Hawthorne.

TOASTMISTRESS
Rona Jefferson, representative
Meet first and third Thursday, NRC Clubhouse, 5:00-6:30 p.m.

COMPETE IN NATIONAL SOARING MEET

Winners of the 21st National Soaring Contest held at Elsinore, California, July 27 through August 5 will be presented with four handsome Northrop Recreation Club trophies, according to Fred Anderson, Engineering Norcrafter who is a contest official. The trophies include one perpetual design competition trophy and three "class" awards.

Competing against top flight pilots and sailplanes from as far away as Japan will be Norcrafter Lyle Maxey, Engineering Loads, in what many Northrop glider enthusiasts believe may be the most outstanding new sailplane design to appear at the nationals. (See picture of the Jenny Mae on page 12.)

Among National Soaring Contest officials this year will be Norcrafters Fred Anderson, Engineering Laboratories; Frank Mullens, Missile Guidance; and William Royce, Schedules and Change Control.

The nine-day contest will include distance, triangular course, goal, goal and return, duration, speed, aerobatics, spot landings, and original design events. Also on the program are Air Force, Navy, and Marine flight exhibitions, glider bomb drops, snake dances, antique aircraft exhibit, radio-controlled model sailplane contest, and exhibition parachute jumps.

Spectators are invited.

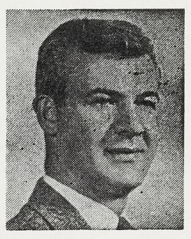
Norcrafter pilot-enthusiasts include Lyle Christianson, Mock-up and Models; Tom Drahos, Structures Engineering Preliminary Design; Fred Fitzgerald, B-62 Aerodynamics; W. G. Koerner, Aerodynamic Project-Preliminary Design; R. W. Lucas, Model Design and Wind Tunnel; R. L. Noble, Model Design and Wind Tunnel; and F. W. Walters, Planning and Scheduling.

Stars of motion pictures, radio and TV will attend and partial TV coverage for the event will be provided.

Lens Club Activities On the Rise

By JOE CARVER
President
Northrop Recreation Club

Something has been added to the enthusiasm within the NRC Camera Club ranks. Always one of the stalwarts of the recreation program at Northrop, the club seems to be glowing with greater fire than ever before.



One reason for the expansive feeling can be attributed to the newly-equipped darkroom available to all members.

Another reason may be that vacation time is here, and no true vacationist would be caught dead without his trusty camera, and with the price of film and prints—it just isn't smart not to know the do's and don'ts of photography.

In addition to teaching the tyros the basic rules of picture taking, the clubs (there are several) have field trips, model nights, demonstrations in developing and printing, lectures, movies, and each month there is a print competition with awards to the winners.

This activity is one in which everyone can participate. The beginners can learn and the experts can practice.

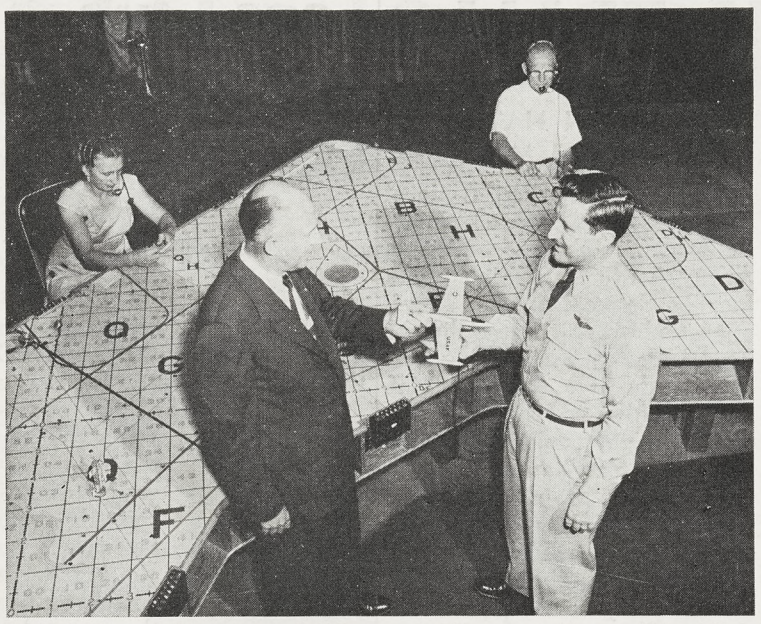
Models at the model night shoots range from beautiful girls to poodles. Field trips may take the photographer anywhere.

If you have ever wondered why the close-up you took of Aunt Minnie turned out all blurred or why the gorgeous sunset you shot off the coast of Santa Monica looked so black—bring your Brownie and come on over: the Camera Club boys have all the answers.

We Beat Ben!

THE MOST—. Proud golfers are those who beat or tied "Bantam Ben" in recent "Beat Ben Hogan" contest. Among 53 Norcrafter entries the NRC Golf Club members pictured won NRC trophies and LIFE medals or certificates for placing in the beat or tied category. From left, kneeling: Mike Chiappetta, Plastic Shop; Tom Williams, Tool Design (Tom tied the champ); J. H. Milne, Loft and Tooling. Standing, left: Harry E. Faught, Armament; F. J. McLarney, Internal Transportation. Losers received "I Tried" certificates.

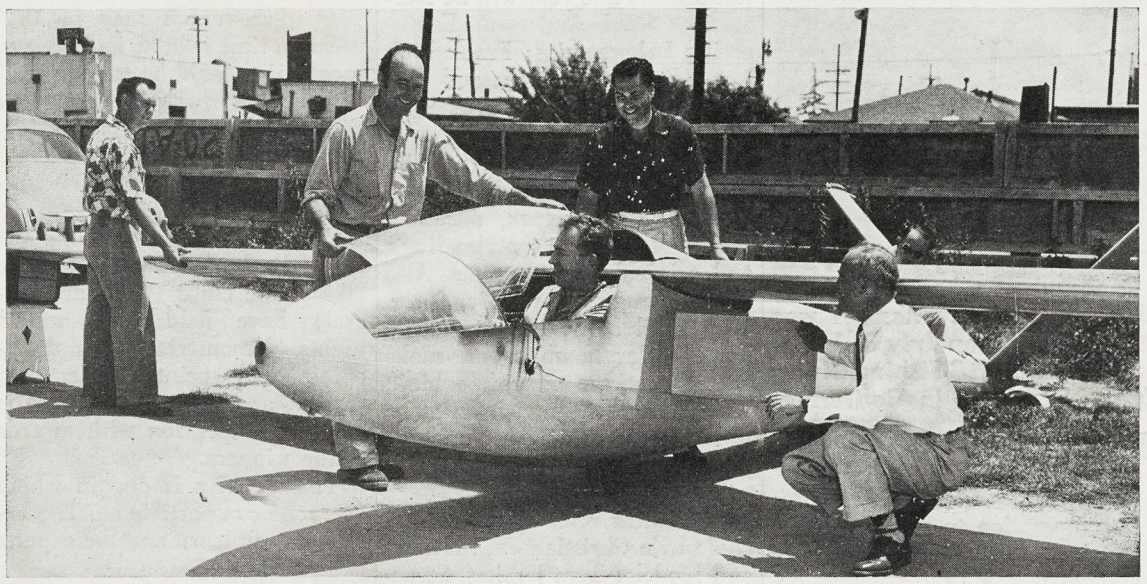
THE Northrop Scene BY DAY AND NIGHT



DURING celebration of "Ground Observer Corps Week"—July 11 to 17—Northrop Civil Defense Coordinator Jerry Baker presented Captain Earl Furnace, head of Pasadena Filter Center, with F-89 model to symbolize defense job Scorpion is doing. Volunteer plotters are in background, working on huge grid, keeping tabs on airplanes in the air.

Summer Session of IAS

BANQUET NIGHT of national summer meeting of Institute of Aeronautical Sciences was attended by Northrop group shown. From left center, clockwise: Edgar Schmued, vice-president, Engineering; Fred Stevens, chief, Missile Guidance; Morwick "Moke" Ross, executive assistant to Vice-president John Alison; John Burns, USAF Northrop contracting officer; Ray Gayner, assistant chief engineer, Projects and Components; Verle Smith, chief, Northrop Missile Test Facility; F. A. Ford, assistant chief engineer, Analytical; John Kerr, chief project engineer; Lieutenant Colonel Charles Tennant, USAF plant representative; W. E. Gasich, chief, Preliminary Design, Engineering division.



JENNY MAE—. Among Northrop gliding enthusiasts entered in the 21st National Soaring Contest held July 27 through August 5 at Elsinore, California, will be Lyle Maxey, Engineering, piloting the Jenny Mae, pictured above. Built by Maxey, Frank Kerns, former Norcrafter, and George Lockett, Lockheed Aircraft, the ship is expected to break the international distance record for sailplanes. Shown by plane are, left: Lockett; Kerns; Maxey; Fred Anderson, Engineering Laboratories; William Royce, Schedules and Change Control; and Frank Mullens, Missile Guidance. See story page 11 for meet details.

NEPTUNE'S BEAUTIES—. Tally of votes at recent Neptune's Festival at Cocoa Beach, Florida, won Norcrafter Jean Potts, Flight department, MTF, popularity queen title for the three-day event. Pictured above are left: Dickie Garner, beauty queen; Jean; Airman George Sideroff, King Neptune; Diane Williams, queen runner-up.

Another F-89D to Alaska

WARM ALASKAN reception met Major Amos Waage when he delivered "Grand Slam" Scorpion to 66th Fighter Interceptor Squadron short time ago. Group on hand when he landed, from left: Bill Boardwell, assistant director, Civil Defense, Anchorage area; Major F. A. MacFarland, 5039th Air Base Wing; Colonel J. C. Haygood, 10th Air Division; Robert Schumacher and Ernie Felis, Northrop tech reps; Major Waage; Lieutenant Colonel Robert M. Fry, CO of 66th; and Captain C. M. Van Meter, operations officer, 66th Fighter Interceptor Squadron. (Photo by courtesy of the 66th PIO).

BICYCLES BUILT for Norcrafters are usual sight at Ontario facility where many whose jobs call for traversing the approximately 33 acres of Scorpion activity are assigned two-wheeled vehicles for convenient transportation. Guard Walter Sichler is seen passing on regular patrol duty as George Sparks, Quality Control foreman, climbs aboard.

10 107